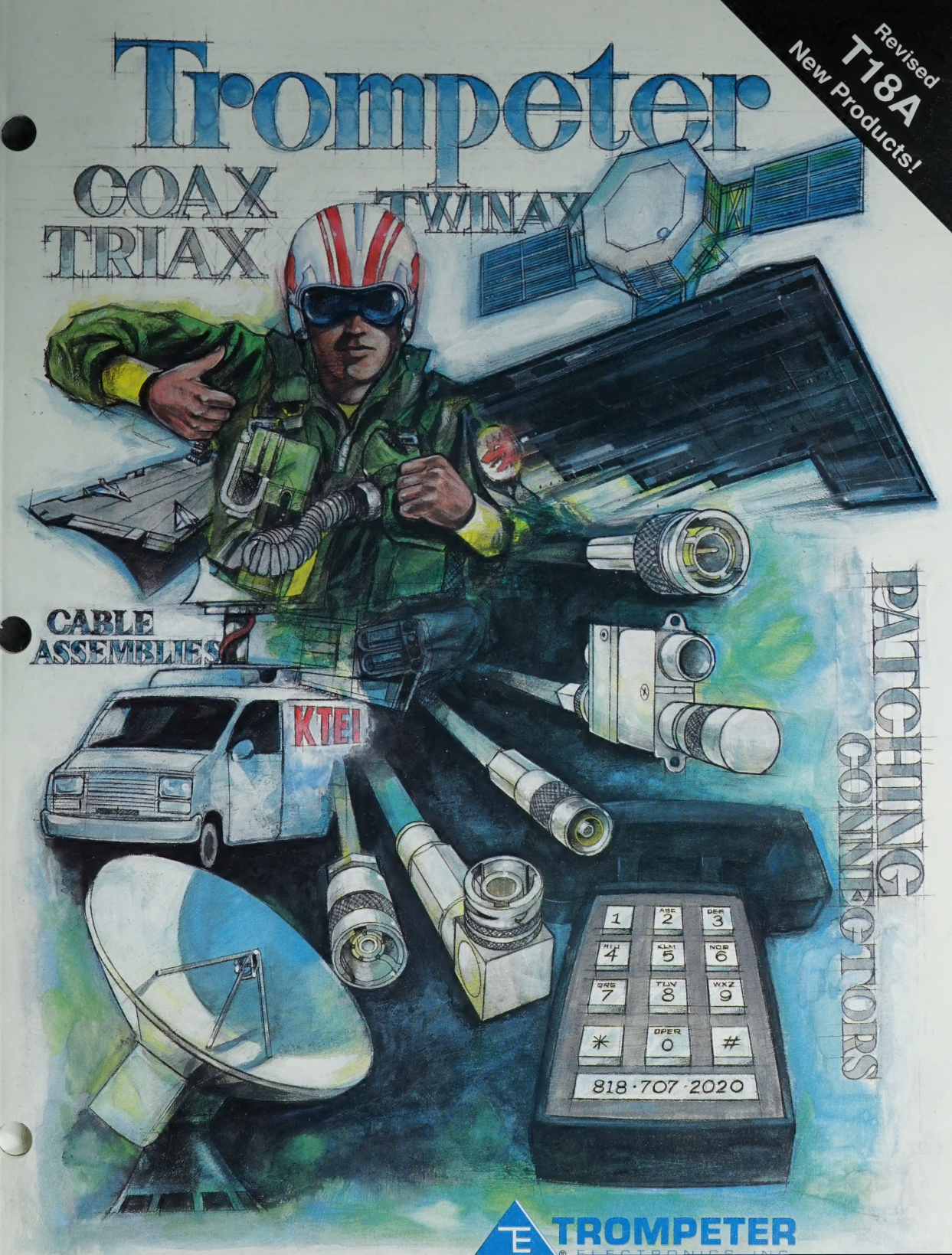
Trompeter

Revised
T18A
New Products!

COAX
TRIAX
TWINAX

CABLE
ASSEMBLIES

PATCHING
CONNECTORS



TROMPETER
ELECTRONICS, INC.

Interconnection Quality

Founded in 1960, Trompeter Electronics, Inc. has established a reputation for producing quality interconnection system components. We've earned that reputation with innovative designs, quality manufacturing, and engineering support from both our nationwide network of sales representatives and our headquarters in beautiful Westlake Village, California.

The Trompeter name stands for high quality interconnection components for coax, twinax, triax and quadrax applications. Our connectors, patch and switching panels, and our cable assemblies provide for the proper interconnection of equipment from many manufacturers with a minimum of engineering, space and cost. Trompeter components are produced to tolerances that ensure reliable operation in adverse environments.

Look to Trompeter Electronics, Inc. for quality patch panels, patch cords, cable assemblies, jacks, plugs, looping plugs, power dividers, and RF connectors.

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New Products & New Sections High-lighted in Red!

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L ..... Length in inches
R ..... Resistance in ohms
Z ..... Impedance
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Trompeter... Obsession: Quality

Introduction: An Important Message to the Design Engineer...

Quality Standard & Custom Components... A Trompeter Tradition

From 1964 to 1966, Trompeter's catalog grew from 78 to 146 components as a result of new and modified designs for unusual applications.

With **Trompeter's Tradition of Custom Components** comes our reputation for rugged products that have been modified or specially designed to perform to your expectations and to meet your specific mechanical requirements. The growth of our product line from **78 components in 1964** to **7,000+ end items with over 20,000 configurations in 1992** is proof of our engineering and manufacturing capabilities.

Why compromise your design when a minor modification might be an affordable solution to your design needs?

Why settle for less than Trompeter's **OBSESSION** for **QUALITY** when investing in custom interconnect components for your most demanding applications?

The products in this catalog are your first resource for solving your special interconnect problems.
If you cannot find an adequate solution, then we invite you to consult us with your special requirements.
The **New Product Request form** in the back of the catalog
may be used to mail or fax us your special requirements!

Trompeter components meet your most demanding requirements when performance is critical, "compromise" is not an acceptable solution and "cost savings" do little to save the integrity of your design. Mechanically our connectors are the toughest in the industry. We invite you to learn more about our design features by reading the product introductions and the Performance, Material and Finish specifications in our catalog. We have included our technical paper, **"Electronic System Wiring & Cable,"** as an informative resource (pages 80-87).

Trompeter's 70 Series connectors are **QPL'd to MIL-C-49142** (page 59). Other Trompeter military items are supplied under the **ADCP** (Acquisition and Distribution of Commercial Products) program, **DOD Directive No. 5000-37,** dated September 1978. To initiate a **"no substitution"** restriction, insert the numeral **"2" under Item 65** and the letter **"B" under Item 66**. It is unfortunate that military specifications governing the manufacture of connectors do not more fully address many of the pitfalls of improper plating, inferior connector base material, and critical contact spring material and plating. The military **"Qualified Product List" (QPL) is only a tabulation of products and manufacturers certified to meet minimum specification standards.** Lax specifications and "low bid" procurement policies will frequently place inferior components in critical applications.

All **Trompeter** connectors carry a **one-year warranty** and meet or exceed the highest industrial and government standards, such as **MIL-C-39012** and **MIL-C-49142,** which was developed from **Trompeter** commercial products. More importantly, **Trompeter** connectors are designed to meet your design specifications which are often more demanding and less forgiving. We have built our business on responding to your special needs for uncompromising performance in a world of increasing pressure from global competition.

Trompeter hopes that you, the **Design Engineer,** will continue to rely on Trompeter's reputation for quality and we look forward to the 1990's with anticipation, pride and, of course, that ever present **OBSESSION: QUALITY**.

Trompeter's ZIP-SHIP Service

This symbol tells you that many of our most popular configurations of that component are in stock. Look for the special *ZIP-SHIP* symbol throughout the catalog.

ZIP-SHIP

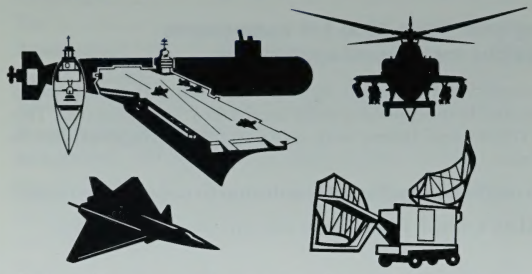
ZIP-SHIP* Service** means that we can ***Zip stock products from our expanded inventory and **Ship** within 24 hours of receipt of your order. Hundreds of different stock connectors in this catalog can be on their way - **FedEx , DHL, UPS,** or via your routing to meet your tough deadlines. Ask for ***ZIP-SHIP Service*** when you place your order.

ZIP-SHIP Part numbers are highlighted in red.
ZIP-SHIP Service is available for specific configurations and availability may change.
Always ask your Trompeter Service Representative if ***ZIP-SHIP*** **Service** is available for your order.
Please let us know if you have an urgent need and we will do our best to accommodate you.

Non-Stock and Custom Items: We have expanded our inventory of ready-to-assemble components. Lead time for many non-stock or custom items is normally eight weeks or less!

Applications
Military Twinax /Triax

Military Applications



Twinax /Triax connectors are used in military applications to protect signals from extraneous noise through non-signal-carrying shielding. Interfacing connectors must provide contact surfaces isolated from each other and from their outer shields.

MIL-STD-1553B addresses twinax applications for computerized/ multiplexed digital data distribution systems servicing the many functions of **Command, Control, Communications and Intelligence (C^3I)** which was originally designed for military aircraft.

The great advantages of additional information, automation and weight savings which are necessary for the complex demands of aircraft operations are realized by using a single transmission cable instead of the complicated, heavy, dedicated multiple cable previously used. A 78Ω twinax cable was selected to provide the transmitted digital information with the needed protection from magnetic, electrostatic and **electromagnetic pulse (EMP)** interference. Complete shielding of the twisted pair along the transmission path and of all electrical contacts within multi-pin connectors must be maintained.

MIL-STD-1553B applications are found in **military surface ships, battle tanks, helicopters, missiles, space vehicles, combat aircraft** and in many ground applications such as **data networks** and **perimeter security** for airports, armories, and other government installations.

Trompeter provides matching components of Twinax/ Triax connectors and cable for improving the transmission capabilities and interference rejection of data transmission systems. Trompeter components will meet or exceed **MIL-STD-1553B** requirements (for airborne and ground check-out) and **MIL-STD-1760 "External Stores."**

Twinax noise reduction is discussed in
"Electronic System Wiring & Cable"
pages 80-87.

For features & benefits of each series, see
Twinax/Triax Connectors-Introduction
pages 46-47.

QPL'd Connectors

Twinax/Triax Connectors
70 Series: QPL'd to MIL-C-49142
See Page 59

Twinax Size 8 Contacts for
Digital Data Bus Multi-pin Connectors

SPC 8P-201 (Pin) ..... QPL'd to MIL-C-39029/90
SPC 8S-201 (Socket) ..... QPL'd to MIL-C-39029/91
See page 47

General Applications — Page#

70 Series: Miniature Twinax/Triax **49-51**
(TRB/TRT)

Used for digital data bus, video pair, airborne MIL-STD-1553B, base-band circuit and other "Noise Free Guarded" circuit applications. Used on larger military aircraft, military surface ships, and on the Trident submarine.

150 Series: Subminiature Twinax/Triax **53-55**
(TRS/TTM)

Used for digital data bus, video pair and airborne MIL-STD-1553B, base-band circuit and other "Noise Free Guarded" circuit applications. Used on ASW/Patrol, CAS/ Attack, Tanker and other types of military aircraft.

70 Series: Concentric, Miniature Patching **28-29**

150 Series: Concentric, Subminiature Patching **29-33**

Quick disconnect, high density connectors to quickly route/ program signals. Used in ground support applications.

80 Series: Standard Twinax/Triax **48**
(TRC/TRN)

Standard "C" sized concentric connectors.
Designed for shipboard data bus MIL-STD-1397.

30 Series: Miniature Connectors **52**
(TWBNC/TNC)

2-Pin polarized 2-lug/threaded connectors.
Not recommended for new design.
Use concentric designs.

450 Series: Subminiature Twinax **56-57**

Concentric connectors designed for airborne digital data bus weight reduction applications. Used on CAS/Attack, Stealth, Military transport and all types of military aircraft.

Applications
Broadcast, Telecom

Broadcast Applications

After over 30 years, even with the advent of highly sophisticated digital switching equipment, Trompeter patching products still provide for the practical, reliable and affordable re-routing of RF and Video signals.

Custom panels with our 75Ω Miniature Patching for **high-density** low VSWR applications, such as Electronic News Gathering (ENG) and Remote Broadcast vans and trailers, have been developed to meet the industry's current need for quality high-density RGBS patching.

Telecom Applications

Increased competition has made the elimination of down-time and transmission noise high priorities for the telephone companies. Many of our products were developed specifically for the telecom industry, which invests in quality electronic components for reliability and performance.

More and more, the Telecom Industry is turning to Trompeter and our "Obsession for Quality."

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Cable Jacks & Plugs 37-38
(Wrench Crimp & Tool Crimp)

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RGBS Panel 8

75Ω BNC Cable Connectors — Page#

75Ω Wrench Crimp, U20 Series 35-36
Typically withstands 100-110 lbs. pull! (Mil spec for cable retention is 10-40 lbs. depending on the size of the cable.) Cable actually pulls apart, breaking away the braid before the connector pulls off the cable!

75Ω Tool Crimp, U220 Series 35-36
Typically withstands 70-90 lbs. pull! (Almost double mil spec requirement!) Exceeds MIL-C-39012B, category "D" requirements. Accommodates many industry standard cables made by AT&T, Comm/Scope, etc. (AT&T 728, 734A and 735)

See "Coax Connectors - Introduction" 34-35
For a feature-by-feature explanation of the benefits of Trompeter's design!

75Ω Patching Products — Page#

Standard Coax Patching 75Ω 14-21
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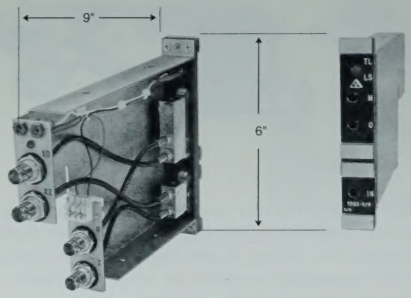
DSX Modules 6-7
Rugged, dependable DSX modules meet or exceed the highest government and industry standards. Designed for accessing and cross-connecting DS4, DS-4E and DS-3 transmissions. Dimensionally equivalent replacement for the ADC DSX-4M (Rear cross-connect).

Custom Panels: 8, 13
Trompeter has manufactured custom distribution panels with BNC connectors for DS-3 data transmission rates (45 megabits) which are used in distribution systems related to DSX applications.

Cross Connect Module 75Ω

BNC rear entry TDSX-3/4
TNC rear entry TDSX-3/4H



The **TDSX-3/4** module is designed for accessing and cross-connecting the following **DS transmissions:**

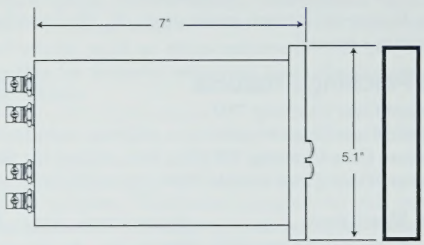
DS-4	274 Megabits
DS-4E	139 Megabits
DS-3	45 Megabits

Design Features:

- Tracer lamp on front and rear of module
- 180° tracer lamp on front
- Interchangeable with ADC's DSX-4M
- 50µ gold plated contacts
- Contacts designed with wiping action
- Module enclosed on all sides
- 23" chassis available
- Extended bandwith: 400 MHz performance

High Density Cross Connect Module 75Ω

BNC rear entry TDSX24-3/4



The **TDSX24-3/4** is a **high-density version** of the **TDSX-3/4**

Design Features:

- Module is 25% thinner (24 modules per panel)
- Reduced module length
- Interchangeable with Telect's DSX-AADC

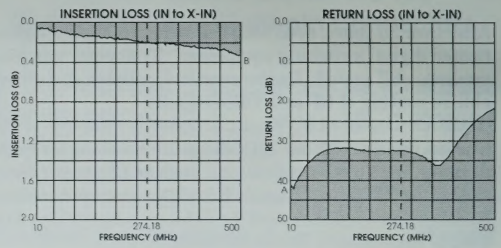
Transmission Characteristics

Insertion Loss: **0.3 dB typical**. Less than 1dB, DC through 400MHz all ports

Return Loss: **22dB typical**
Greater than 25 dB, DC through 175 MHz
Greater than 20 dB, DC through 400 MHz

Monitor Level: **75Ω monitor termination,** 21 dB ± 1.5 dB below signal level DC to 400 MHz

Crosstalk: **Better than 60 dB isolation to 400 MHz**



Interface Characteristics

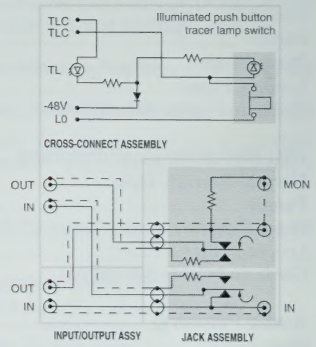
Patch Plugs (Front): Patch jacks require Western Electric type miniature 75Ω plugs.

Connectors (Rear): Input/output and cross-connect jacks require 75Ω BNC or TNC plugs as specified.

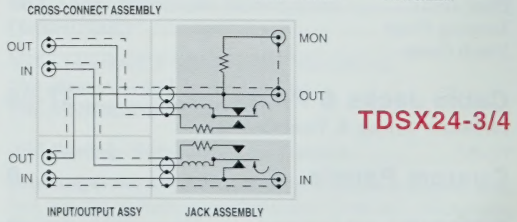
TDSX-3/4: Dimensionally equivalent to and can replace the ADC DSX-4M (rear cross-connect) in the ADC chassis.

Circuit Schematics:

TDSX-3/4



TDSX24-3/4

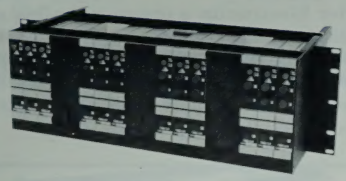


See Telecom Applications Page 5

See Chassis on facing page

TROMPETER ELECTRONICS, INC. VISA MasterCard (818) 707-2020 Fax (818) 706-1040

Chassis for Cross-Connect Modules



Chasis Only- For 1-18 **TDSX-3/4** modules **9-0004**
Chasis loaded with 1-18 modules **9-0004-②**
Flush or 2", 4", 5", or 6" recessed chassis mounting

Chasis Only- For 1-24 **TDSX24-3/4** modules **9-0005**
Chasis loaded with 1-24 modules **9-0005-②**
Flush or 2", 4", 5", or 6" recessed chassis mounting

②-Number of modules
Consult the Factory for more information.

Telecom Accesories

Miniature Patch Jack **J12C-①**
Tool Crimp See page 25

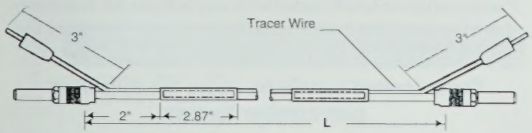
Miniature Patch Plug **PL11C-①**
Tool Crimp See page 27

Miniature Patch Plug **PL11AC-①**
All Crimp See page 27

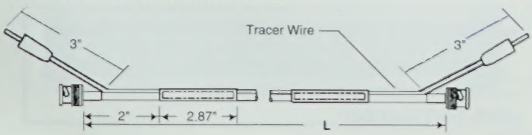
Miniature Right Angle Patch Plug **PLR11C-①**
Tool Crimp See page 27

Cable Plug 75Ω **UPL220-①**
Tool Crimp See page 35

Patch Cord **105-1386-1-L**
Miniature patch plug to miniature patch plug with tracer wire



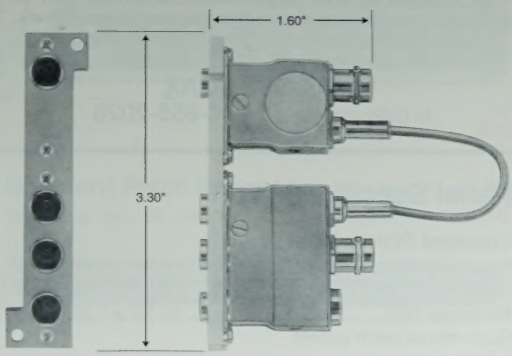
Cable Assembly **105-1386-2-L**
BNC to BNC with tracer wire



①-Cable Group# pg 71-75, Compatibility pg 76,
L- Length in inches

DS3 Cross Connect Module TDSX-3

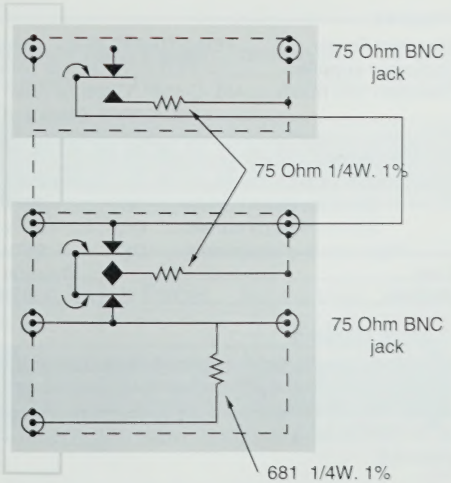
BNC Rear Interface



Design Features:

- **Convenient rear BNC connectors**, on both the switching jack and the monitor assembly.
- **Equivalent in form, fit and function** to AT&T's 619/627 jack cable assemblies (Com codes 842815649 & 845762200) currently in use in AT&T DSX-3 cross-connect bays (ED2C667-30/31).
- **Field replaceable** using any BNC terminated, telecom cable.
- **Costs less than competitive modules.**

Circuit Schematic:



Panels
Introduction & Specifications

Introduction:

The following five pages offer a collection of panels in popular sizes & jack configurations.
For other special panels, contact your local **Trompeter** representative (pages 94-96) or call...

1-800-982-COAX
In California call... **1-800-655-2028**

Panel Specifications:

Standard Dimensions

Standard/ Miniature 50Ω/75Ω ..... 19.00" x 1.75" x .56"
Rack-mount patch panels 19.00" x 3.50" x .56"
Miniature 75Ω ..... 17.15" x 1.75" x .56"
Flush-mount patch panels

Vertical Hole Center-spacing

Standard patch panels ..... .625"
3.50" standard patch panels ..... 1.000"
"W" configuration option
Miniature 50Ω/75Ω patch panels ..... .50"
Miniature 50Ω patch panels ..... 1.10"
"B" configuration option

Notching:

Metal panels (EIA-310-C) ..... Open
Phenolic (EIA-310-C) ..... Closed

Materials :

JS Series, Common ground panels
Panel ..... 6061-T6 grade aluminum
Backbar ..... 6061-T6 grade aluminum
JSI Series, Insulated panels
Panel ..... 6061-T6 grade aluminum
Backbar ..... XXX non-hydroscopic phenolic
Jack insulation ..... Nylon sleeves

Finishes:

Standard Finish ..... FED-STD-595-26307, Light Gray
Customer supplied ..... FED-STD-595# or paint chip
Chemical film finish ..... MIL-C-5541, Class 1a (Gold tone)
MIL-C-5541, Class 3, (Clear)

Identification:

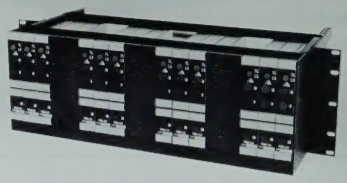
Designation Strip		**Anodized steel**
Standard patch panels	DS1	.50" x 16.5"
Standard patch panels	DS2	.75" x 16.5"
High density patch panels	DS4	.25" x 16.5"
Card		**Opaque vinyl**
Window		**Clear vinyl**

Custom Marking:

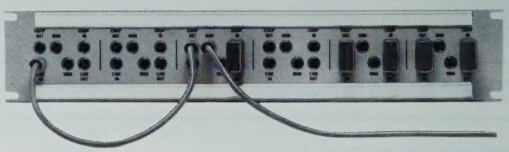
Panel front may be engraved or silk- screened in-lieu of or in-addition-to designation strips. Patch jack locations can also be marked on the rear of the panel for easy location of jacks from the back of the rack. These markings are usually stenciled.

Custom Panels

Trompeter Electronics is unique in the field of custom panel manufacturing. Panels can be configured to meet your specifications (including wiring), can be painted any **FED-STD-595 color** and/or engraved or silk screened. **Trompeter** can also supply custom racks and cabinets to meet your special requirements.

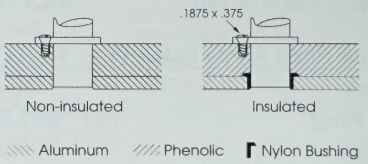


DSX Cross-Connect Panels **See page 7**



Custom Patch Panels (Shown) **1505-0620**

Panel Cross Section



Ordering Loaded Panels

Panels can be ordered loaded with any compatible combination of jacks without additional labor charge (provided the mechanical restrictions are recognized).

Order loaded panels by using the following part number format:

Example: A standard non-insulated panel **(JS-12)** loaded with twelve **(12)** standard 50Ω patch jacks **(J3).**

JS(I)-12 / J3

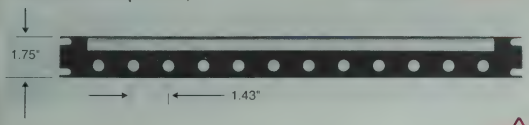
Panel part number _____
JS: Aluminum panel (Open notch)
JSI: Insulated panel (Open notch)
Jack part number _____

Contact Factory for more information

Panels loaded at No Additional Charge!

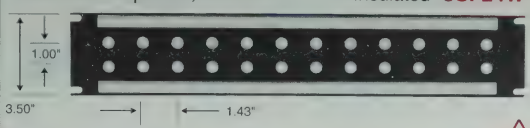
Panels
Standard Patch Panels

Standard Patch Panel Non-insulated **JS-12**
Will not accept J14, J15 Insulated **JSI-12**



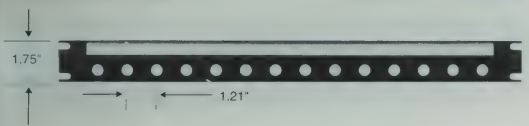
ZIP-SHIP

Standard Patch Panel Non-insulated **JS-24W**
Will not accept J14, J15 Insulated **JSI-24W**

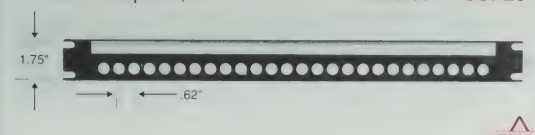


ZIP-SHIP

Standard Patch Panel Non-insulated **JS-14**
Will not accept J14, J15 Insulated **JSI-14**

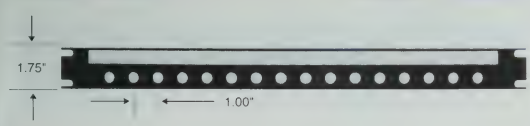


Standard Patch Panel Non-insulated **JS-26**
Will not accept J9, J15 Insulated **JSI-26**



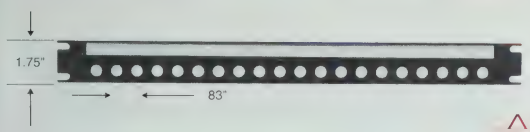
ZIP-SHIP

Standard Patch Panel Non-insulated **JS-16**
Will not accept J14, J15 Insulated **JSI-16**



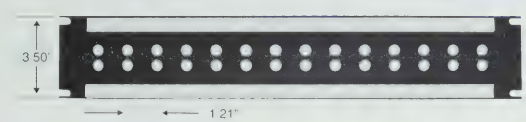
Standard Patch Panel Non-insulated **JS-28**
Will not accept J9, J14, J15 Insulated **JSI-28**

Standard Patch Panel Non-insulated **JS-20**
Will not accept J14, J15 Insulated **JSI-20**

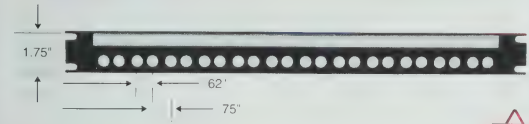


ZIP-SHIP

Standard Patch Panel Non-insulated **JS-28A**
Will not accept J9, J10 Insulated **JSI-28A**



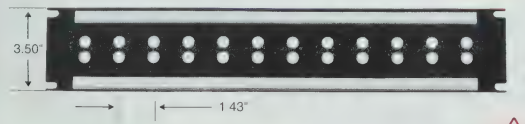
Standard Patch Panel Non-insulated **JS-24S**
Will not accept J9, J15 Insulated **JSI-24S**



ZIP-SHIP

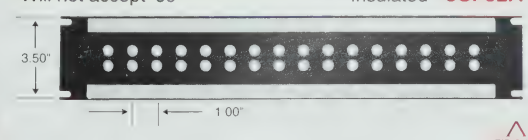
Standard Patch Panel Non-insulated **JS-28W**
Will not accept J14, J15 Insulated **JSI-28W**

Standard Patch Panel Non-insulated **JS-24L**
Will not accept J9 Insulated **JSI-24L**



ZIP-SHIP

Standard Patch Panel Non-insulated **JS-32A**
Will not accept J9 Insulated **JSI-32A**



ZIP-SHIP

Standard Patch Jacks pages 14-22, 30-33

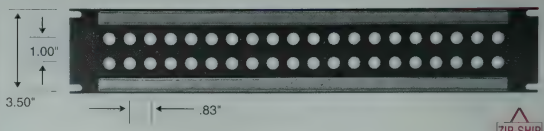
Panels

Standard Patch Panels

Standard Patch Panel
Will not accept J9
Non-insulated **JS-32S**
Insulated **JSI-32S**

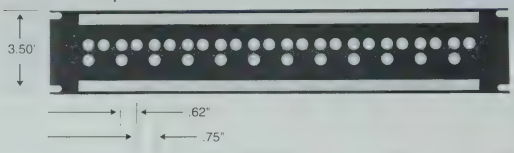
ZIP-SHIP

Standard Patch Panel
Will not accept J14, J15
Non-insulated **JS-40W**
Insulated **JSI-40W**

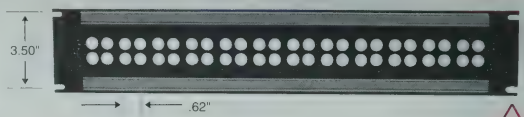


ZIP-SHIP

Standard Patch Panel
Will not accept J9
Non-insulated **JS-36**
Insulated **JSI-36**

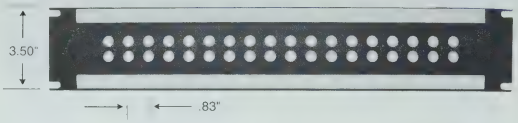


Standard Patch Panel
Will not accept J9
Non-insulated **JS-48A**
Insulated **JSI-48A**

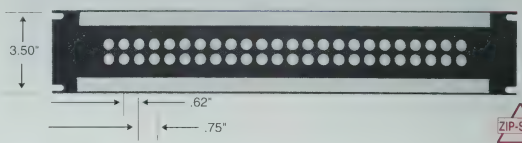


ZIP-SHIP

Standard Patch Panel
Will not accept J9
Non-insulated **JS-36A**
Insulated **JSI-36A**



Standard Patch Panel
Will not accept J9
Non-insulated **JS-48**
Insulated **JSI-48**

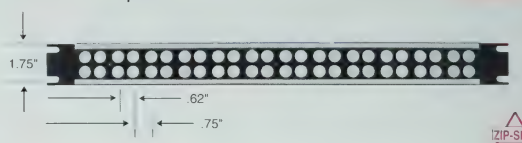


ZIP-SHIP

Standard Patch Panel
Will not accept J9
Non-insulated **JS-40S**
Insulated **JSI-40S**

ZIP-SHIP

Standard Patch Panel
Will not accept J9
Non-insulated **JS-48S**
Insulated **JSI-48S**



ZIP-SHIP

Standard Patch Panel
Will not accept J9
Non-insulated **JS-40**
Insulated **JSI-40**

ZIP-SHIP

Standard Patch Panel
Will not accept J9
Non-insulated **JS-52s**
Insulated **JSI-52s**

ZIP-SHIP

Standard Patch Jacks pages 14-22, 30-33

ZIP-SHIP 24 HRS. TROMPETER

OBSESSION: On-time delivery!

ZIP-SHIP Service

Remember... the ***ZIP-SHIP*** **symbol** means that we can ***Zip*** stock products from our expanded inventory and ***Ship*** them **FedEx, DHL, UPS** or via your routing within 24 hours of receipt of your order! Lead times for many non-stock or custom items are eight weeks or less!

ZIP-SHIP **part numbers are highlighted in red.**
(Available for specific configurations and availability may change)

Ask about ***ZIP-SHIP Service*** when you place your order.

ZIP-SHIP

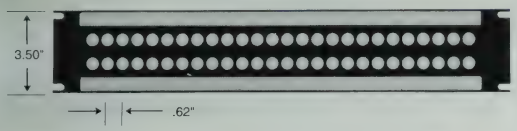
TROMPETER ELECTRONICS, INC. VISA MasterCard (818) 707-2020 Fax (818) 706-1040

Panels

Standard Patch Panels, Miniature 50Ω Patch Panels

Standard Patch Panel
Will not accept J9
Non-insulated **JS52**
Insulated **JSI-52**

Standard Patch Panel
Will not accept J9, J14, J15
Non-insulated **JS-52W**
Insulated **JSI-52W**



Standard Patch Panel
Will not accept J9
Non-insulated **JS-56**
Insulated **JSI-56**

Standard Patch Panel
Special panel
Non-insulated **JS-72**
Insulated **JSI-72**

Consult Factory for hole configurations & jack compatibility

Hole Plugs

Panel Hole Plugs

Miniature 50Ω patch panels **HP250**
Standard patch panels **HP437**

Jack Hole Plugs

Miniature 75Ω patch jacks **HP304**
Standard patch jacks **HP375**

Miscellaneous Hole Plug **HP500**

Note: Number denotes hole size in thousandths of an inch.

HP437 HP375 HP250

ZIP-SHIP

Miniature 50Ω Coax Patch Panels
for high density 50Ω patching.

19" panels tapped **.312-32-2A** to accept **J8** and **J8D jacks.**

.50" center-to-center vertical & horizontal hole spacing (unless otherwise noted).

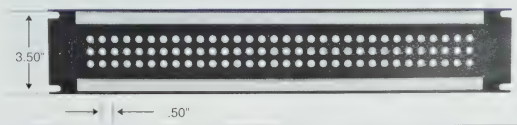
Insulated & non-insulated panels have stiffener bars.

Miniature 50Ω Coax Patch Panel
Non-insulated **JS-32**
Insulated **JSI-32**

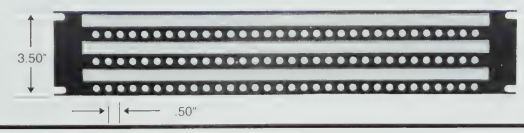
Miniature 50Ω Coax Patch Panel
Non-insulated **JS-64S**
Insulated **JSI-64S**

Miniature 50Ω Coax Patch Panel
Non-insulated **JS-64L**
Insulated **JSI-64L**

Miniature 50Ω Coax Patch Panel
Non-insulated **JS-96A**
Insulated **JSI-96A**



Miniature 50Ω Coax Patch Panel
Non-insulated **JS-96B**
Insulated **JSI-96B**



Standard Patch Jacks pages 14-22, 30-33

Miniature 50Ω Patch Jacks page 23

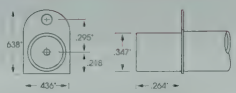
Panels

Miniature 75Ω Patch Panels, Mounting Hole Specifications

Miniature 75Ω Coax Patch Panels

For high density, **low VSWR**, 75Ω coaxial applications (microwave, sub-carrier telephone systems, etc.). **Trompeter's J12** jack/**PL11C** plug combination has a VSWR of 1.04:1 in the 60-80 MHz range.

Jack mounting detail



Mounting Hole Specifications

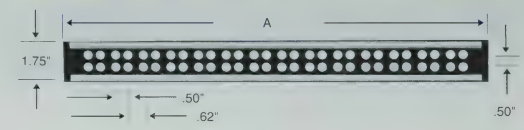
Throughout the catalog you will find mounting holes called out for bulkhead jacks.

Example: D2 .140

Mounting Hole Type
Maximum panel thickness in inches

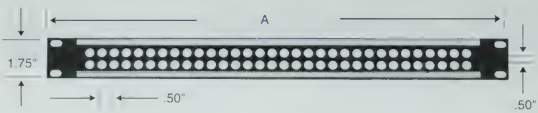
Miniature 75Ω Coax Insulated Patch Panel

A=19.00" Rack Mount **JSIX-56**
A=17.15" Flush Mount **JSIX-56F**



Miniature 75Ω Coax Insulated Patch Panel

Rack Mount **JSIX-64S**
Flush Mount **JSIX-64F**

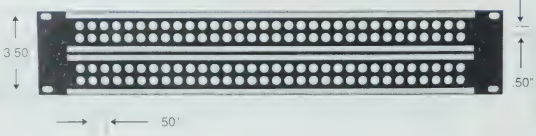


Miniature 75Ω Coax Insulated Patch Panel

Rack Mount **JSIX-64L**

Miniature 75Ω Coax Insulated Patch Panel

Rack Mount **JSIX-128**

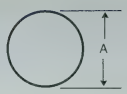


Miniature 75Ω Coax Patching
pages 25-27

Subminiature Twinax/Triax Patching
pages 28-29

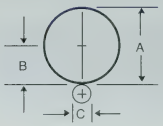
Custom Panels
page 8

Circular



	A
C1	.317"-.321"
C2	.380"-.385"
C3	.442"-.447"
C4	.474"-.480"
C5	.505"-.510"
C6	.755"-.760"

Double Circular

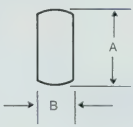


CC1
A = .630"-.640"
B = .370"-.380"
C = .136"-.140"

"D" Hole

	A	B
D1	.755"-.760"	.343"-.346"
D2	.630"-.635"	.281"-.284"
D3	.505"-.510"	.218"-.221"
D4	.439"-.443"	.187"-.190"
D5	.380"-.384"	.156"-.159"
D6	.317"-,321"	.128"-.131"
D7	.281"-.285"	.125"-.128"
D8	.605"-.610"	.280"-.285"
D9	.567"-.572"	.257"-.260"
D10	.192"-.197"	.079"-.082"
D11	1.005"-1.015"	.470"-.480"

Double "D" Hole



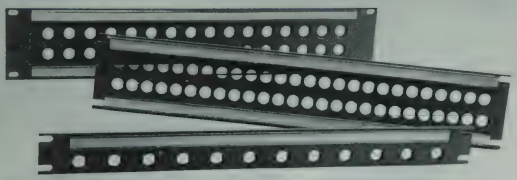
	A	B
DD1	.630"-.635"	.532"-.543"
DD2	.380"-.384"	.312"-.316"
DD3	.505"-.510"	.443"-.447"
DD4	.630"-.635"	.562"-.566"
DD5	.475"-.480"	.436"-.440"
DD6	.755"-.765"	.690"-.695"
DD7	1.140"-1.145"	1.060"-1.065"
DD8	.330"-.335"	.274"-.278"

For additional information contact your local **Trompeter Rep**, pgs 94-96, or Call... **1-800 982-COAX** In California Call... **1-800-655-2028**

Panels

Cable Distribution Panels

Cable Distribution Panels



The **19" panels** listed in **Table A** below accommodate the bulkhead jacks designated by a "•" in **Panel Columns A- M** of **Table B** to the right.

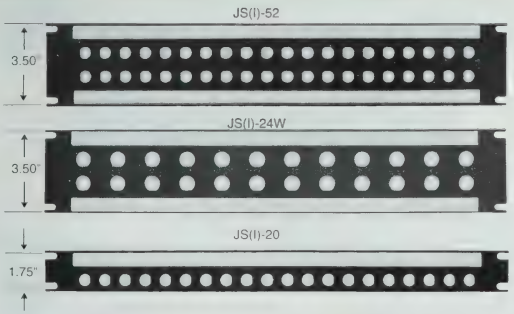
Panel specifications: See page 8.

Table A

ZIP-SHIP

Panel Col.	Column 2 Panel Type	# of Holes	Panel Height	Hole Spacing Hor.	Vert.
A	JS(I)-5	5	1.75"	2.500"	--
B	JS(I)-8	8	1.75"	2.070"	--
C	JS(I)-10	10	1.75"	1.656"	--
D	JS(I)-12	12	1.75"	1.430"	--
E	JS(I)-14	14	1.75"	1.210"	--
F	JS(I)-16	16	1.75"	1.000"	--
G	JS(I)-20***	20	1.75"	0.830"	--
H	JS(I)-24	24	1.75"	1.460"	1.250"
I	JS(I)-24W	24	3.50"	1.430"	1.000"
J	JS(I)-32	32	3.50"	1.000"	1.000"
K	JS(I)-40**	40	3.50"	0.875"	1.000"
L	JS(I)-40W*	40	3.50"	0.875"	1.000"
M	JS(I)-52	52	3.50"	0.675"	1.000"

***JS(I)-20:** Hor. spacing .875" for D2 & D3 hole types.
JS(I)-40: Hor.& Vert. spacing 0.830" for D3 hole types.
*JS(I)-40W: Hor. spacing .830" for D3 hole types.
Contact the Factory for availability of jacks/panels not listed.



To order Cable Distribution Panels,

use the following format:

*JS - 12 D2SF8 / (U)BJ72

Panel type -Table A, Col 2
Mounting hole -Table B, Col. 1
Jack Type -Table B, Col. 3/4 ("U" designates 75Ω)

*JS- Non-Insulated Panel ..... (Open notch)
*JSI- Insulated panel ..... (Closed notch)

Table B: Jack/Panel Compatibility

Column 1 Mtg Hole	75 Ω	Column 3 Jacks: 2/3/4 Lug	Column 4 Threaded	Panel Columns A	B	C	D	E	F	G	H	I	J	K	L	M
DD4	U	AD 95		•	•	•	•	•	•	•	•	•	•	•	•	
DD4	U	ADI 95		•	•	•	•	•	•	•	•	•	•	•	•	
D 5SF 5	U	BJ 20		•	•	•	•	•	•	•	•	•	•	•	•	•
D 3SF 6	U	BJ 21		•	•	•	•	•	•	•	•	•	•	•	•	•
D 2SF 3	U	BJ 26		•	•	•	•	•	•	•	•	•	•	•	•	
D 8SF 12	U	BJ 26GF		•	•	•	•	•	•	•	•	•	•	•	•	
D 3SF 7	U	BJ 27		•	•	•	•	•	•	•	•	•	•	•	•	•
D 3SF 7	U	BJ 28		•	•	•	•	•	•	•	•	•	•	•	•	•
D 8SF 11	U	BJ 28GF		•	•	•	•				•	•	•			
D 2SF 3	U	BJ 29-6 Large body		•	•	•	•	•	•	•	•	•	•	•	•	
D 3		UBJ 29		•	•	•	•	•	•	•	•	•	•	•	•	
D 5SF 5		BJ 30	BJ330	•	•	•	•	•	•	•	•	•	•	•	•	•
D 3		BJ 31	BJ331	•	•	•	•	•	•	•	•	•	•	•	•	
D 3		BJ 32	BJ332	•	•	•	•	•	•	•	•	•	•	•	•	
D 3SF 8		BJ 38	BJ388	•	•	•	•				•	•	•			
D 3		BJ 39	BJ339	•	•	•	•	•	•	•	•	•	•	•	•	
D 5SF 5	U	BJ 40		•	•	•	•	•	•	•	•	•	•	•	•	•
D 3SF 6	U	BJ 41		•	•	•	•	•	•	•	•	•	•	•	•	•
D 2SF 3	U	BJ 46		•	•	•	•	•	•	•	•	•	•	•	•	
D 8SF 12	U	BJ 46GF		•	•	•	•	•	•	•	•	•	•	•	•	
D 3SF 7	U	BJ 47		•	•	•	•	•	•	•	•	•	•	•	•	•
D 3SF 7	U	BJ 48		•	•	•	•	•	•	•	•	•	•	•	•	•
D 8SF 11	U	BJ 48GF		•	•	•	•				•	•	•			
D 2SF 3	U	BJ 49-6 Large body		•	•	•	•	•	•	•	•	•	•	•	•	
D 3		UBJ 49		•	•	•	•	•	•	•	•	•	•	•	•	
D 6		BJ 50/FL	BJ350	•	•	•	•		•	•	•	•	•	•	•	•
D 4SF 2		BJ 57/FL	BJ357	•	•	•	•	•	•	•	•	•	•	•	•	•
D 5SF 9		BJ 58/FL		•	•	•	•	•	•	•	•	•	•	•	•	•
D 4SF 4		BJ 59/FL	BJ359	•	•	•	•	•	•	•	•	•	•	•	•	•
D 2SF 8		BJ 72 TL FL	BJ372	•	•	•	•				•	•	•			
D 2SF 8		BJ 73/TL/FL	BJ373	•	•	•	•				•	•	•			
D 2SF24		BJ 74/TL/FL	BJ374	•	•	•	•	•	•	•	•	•	•	•	•	
D 2SF24		BJ 74C TL/FL	BJ374C	•	•	•	•	•	•	•	•	•	•	•	•	
D 2SF24		BJ 75 TL FL	BJ375	•	•	•	•	•	•	•	•	•	•	•	•	
D 4SF25		BJ 77/TL/FL	BJ377	•	•	•	•	•	•	•	•	•	•	•	•	•
D 3SF13		BJ 78/TL/FL	BJ378	•	•	•	•	•	•	•	•	•	•	•	•	
D 3SF15		BJ 79 TL FL	BJ379	•	•	•	•	•	•	•	•	•	•	•	•	
D 3SF15		BJ 79C/TL/FL	BJ379C	•	•	•	•	•	•	•	•	•	•	•	•	
D 1SF 1		BJ 80, BJ803	BJ380								•					
D 1		BJ 83, BJ833	BJ383								•					
D 1		BJ 88, BJ883	BJ388								•					
D11		BJ 89	BJ389	•	•	•										
DD6		BJ 89, BJ893	BJ389	•	•	•	•	•			•	•	•			
DD1	U	BJ 95 Large body		•	•	•	•	•	•	•	•	•	•	•	•	
DD4	U	BJ 95 Large body		•	•	•	•	•	•	•	•	•	•	•	•	
DD4	U	BJ 96		•	•	•	•	•	•	•	•	•	•	•	•	
DD4	U	BJ 98		•	•	•	•	•	•	•	•	•	•	•	•	
D 2SF 3		BJ 101		•	•	•	•	•	•	•	•	•	•	•	•	
D 2SF 3		BJ 102		•	•	•	•	•	•	•	•	•	•	•	•	
DD2SF14		BJ 130		•	•	•	•	•	•	•	•		•	•	•	•
DD2SF30		BJ 138		•	•	•	•	•	•	•	•	•	•	•	•	•
DD2SF30		BJ 139		•	•	•	•	•	•	•	•	•	•	•	•	•
D 4		BJ 150/FL	BJ3150	•	•	•	•	•	•	•	•	•	•	•	•	•
D 9		BJ 152/FL	BJ3152	•	•	•	•	•	•	•	•	•	•	•	•	
D 9SF 12		BJ 153/FL	BJ3153	•	•	•										•
D 9SF 12		BJ 154/FL	BJ3154	•	•	•										•
D 9SF 12		BJ 154AC/FL	BJ3154AC	•	•	•										•
D 6		BJ 157/FL	BJ3157	•	•	•	•		•	•	•	•	•	•	•	•
D 5SF 9		BJ 158/FL		•	•	•	•	•	•	•	•	•	•	•	•	•
D 4SF 4		BJ 159/FL	BJ3159	•	•	•	•	•	•	•	•	•	•	•	•	•
D 4SF 4		BJ 159AC/FL	BJ3159AC	•	•	•	•	•	•	•	•	•	•	•	•	•
D 2SF 3	U	BJ 226		•	•	•	•	•	•	•	•	•	•	•	•	
D 8SF 12	U	BJ 226GF		•	•	•	•	•	•	•	•	•	•	•	•	
D 3	U	BJ 229		•	•	•	•	•	•	•	•	•	•	•	•	
D 2SF 3	U	BJ 246		•	•	•	•	•	•	•	•	•	•	•	•	
D 8SF 12	U	BJ 246GF		•	•	•	•	•	•	•	•	•	•	•	•	
D 3		BJ 249		•	•	•	•	•	•	•	•	•	•	•	•	
D 4SF 9		-	BJ358	•	•	•	•	•	•	•	•	•	•	•	•	•
DD8		BJ 450	BJ3450	•	•	•	•	•	•	•	•	•	•	•	•	•
DD8		BJ 457	BJ3457	•	•	•	•	•	•	•	•	•	•	•	•	•
DD8SF31		BJ 459	BJ3459	•	•	•	•	•	•	•	•	•	•	•	•	•
D11		BJ 893 Large body			•	•	•									
D 3SF 7	U	BJ2848	Rear mount	•	•	•	•	•	•	•	•	•	•	•	•	•
D 4SF 9		-	BJ3158	•	•	•	•	•	•	•	•	•	•	•	•	•
D 3SF 7	U	BJ4828	Rear mount	•	•	•	•	•	•	•	•	•	•	•	•	•
D 9SF12		CBJ 155/FL	BJ3155	•	•	•										•
D 5SF10	U	J 95		•	•	•	•	•	•	•	•	•	•	•	•	•
D 4SF25		J 152FLFT		•	•	•	•	•	•	•	•	•	•	•	•	•
D 4SF25		J152FT	J3152FT	•	•	•	•	•	•	•	•	•	•	•	•	•
DD5SF6		PL 122		•	•	•	•	•	•	•	•	•	•	•	•	•
DD8SF31		TBJ 451/FL		•	•	•	•	•	•	•	•	•	•	•	•	•

Coax Patching
Introduction & Standard Coax Patch Jacks

Patching systems provide the maximum flexibility needed to re-route signals and are used in **"shielded cable"**, **video**, and **RF** applications. These jacks may be intermixed on the same panel provided the **mechanical limitations** are recognized.

Trompeter patching products are available in **two standards** with **different impedances and center contact pin sizes.**

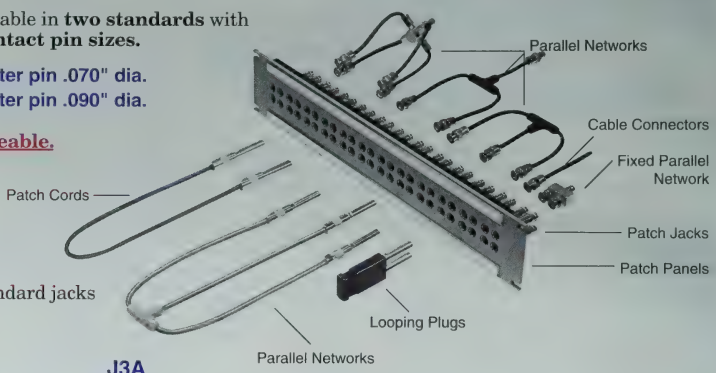
50Ω RCA ..... Center pin .070" dia.
75Ω Western Electric (WE) ..... Center pin .090" dia.

The two standards are not intermateable.

Microswitches may be added to all standard jacks in this series (except as noted) by adding the letter **"A"** to the part number.

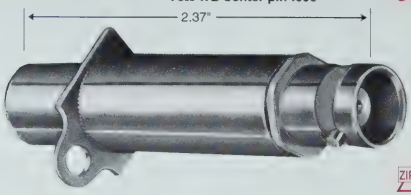
Example: J3 with microswitch **J3A**

General Patching Products

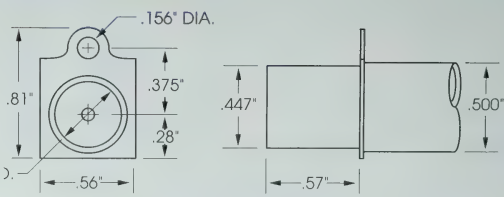


• **Panels:** Pages 8-13 • **Cable Distribution Panels:** Page 13 • **Custom Coax Cable Assemblies:** Pages 60-65

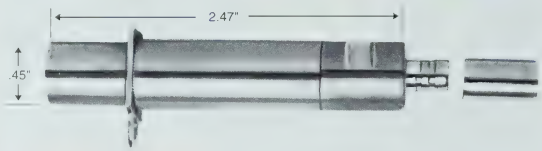
Patch Jack BNC
50Ω RCA Center pin-.070" **J3**
75Ω WE Center pin-.090" **J3W**



Jack mounting detail

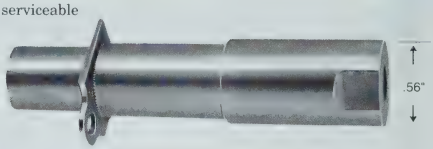


Patch Jack* Crimp
50Ω RCA Center pin-.070" ..... **J3C-**⚠
75Ω WE Center pin-.090" .. **J3WC-**⚠



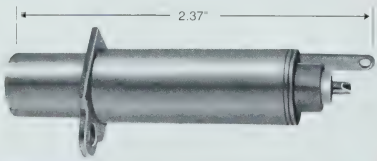
* - Microswitch not available

Patch Jack* Cable entry
Field serviceable
50Ω RCA Center pin-.070" ..... **J3E-**⚠
75Ω WE Center pin-.090" .... **J3WE-**⚠



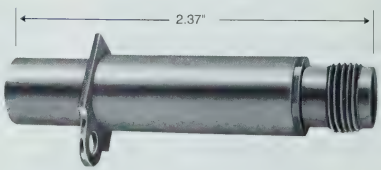
(WECo 447 type) * - Microswitch not available

Patch Jack Solder pot
50Ω RCA Center pin-.070" **J3D**
75Ω WE Center pin-.090" **J3WD**



(WECo 468 type)

Patch Jack TNC
50Ω RCA Center pin-.070" **J5**
75Ω WE Center pin-.090" **J5W**

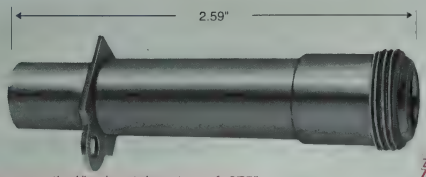


Finding/Ordering cable connectors pg 70. ⚠ - Cable Group# pg 71-75/ Compatibility pg 76, **Panels** pg 8, **Tools** pg 78-79

Coax Patching
Standard Coax Patch Jacks

Patch Jack
N

50Ω RCA Center pin-.070" **J9**
75Ω WE Center pin-.090" **J9W**



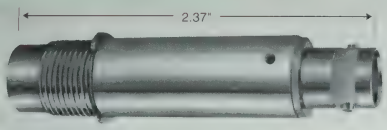
ZIP-SHIP

Minimum vertical/horizontal centers of .875"

Patch Jack
BNC

50Ω RCA Center pin-.070" **J10**
75Ω WE Center pin-.090" **J10W**

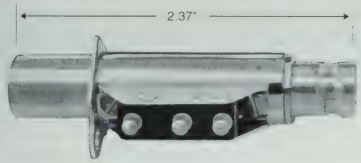
Requires special threaded panel .5-28 UNEF-2A
Consult Factory when ordering with panels.



Patch Jack
BNC

50Ω RCA Center pin-.070" **J3A**
75Ω WE Center pin-.090" **J3WA**

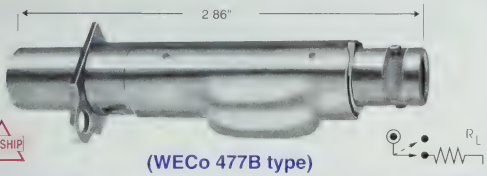
External SPDT microswitch (125-250VAC, 5 amps/28VDC, 1 amp res., 3 amp ind.)



Patch Jack
Self-terminating
BNC

50Ω RCA Center pin-.070" **J13-R**
75Ω WE Center pin-.090" **J13W-R**

Circuit is terminated when plug is removed.

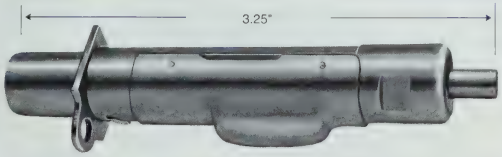


ZIP-SHIP

(WECo 477B type)

Patch Jack
Self-terminating

50Ω RCA Center pin-.070" ..... **J13C-R-⚠**
75Ω WE Center pin-.090" **J13WC-R-⚠**



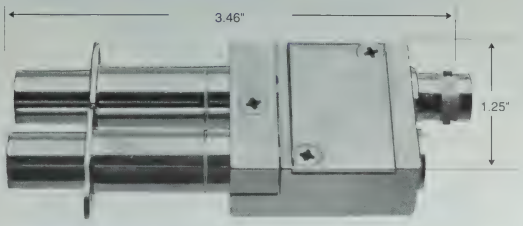
Cable crimp

Circuit is terminated when plug is removed.

Dual Patch Jacks — J15 Series

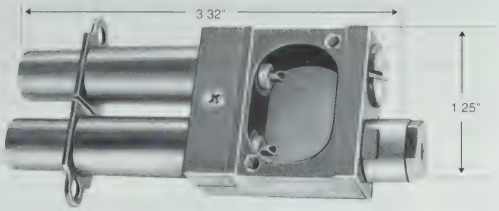
Mounted vertically or horizontally on 5/8" centers.
Mounting tabs are normally "back-to-back" as shown.
For side-by-side tabs for horizontal mounting, add the letter "**L**" for left-hand tabs or "**R**" for right-hand tabs.

BNC or TNC Rear Entry



Cable Rear Entry:
Normally one rear entry connection.
Provisions for 1 or 2 coax or twinax cables.

ZIP-SHIP



Rear Entry		Prewired?	Center pin 50Ω RCA	
BNC	Single	Y	.070"	**J15B**
BNC	Single	N	.070"	**J15BA**
BNC	Dual	Y	.070"	**J15BB**
BNC	Dual	N	.070"	**J15BBA**
TNC	Single	Y	.070"	**J15H**
TNC	Single	N	.070"	**J15HA**
TNC	Dual	Y	.070"	**J15HH**
TNC	Dual	N	.070"	**J15HHA**
Cable	Single	N	.070"	**J15-⚠**

Rear Entry		Prewired?	Center pin 75Ω WE	
BNC	Single	Y	.090"	**J15WB**
BNC	Single	N	.090"	**J15WBA**
BNC	Dual	Y	.090"	**J15WBB**
BNC	Dual	N	.090"	**J15WBBA**
TNC	Single	Y	.090"	**J15WH**
TNC	Single	N	.090"	**J15WHA**
TNC	Dual	Y	.090"	**J15WHH**
TNC	Dual	N	.090"	**J15WHHA**
Cable	Single	N	.090"	**J15W-⚠**

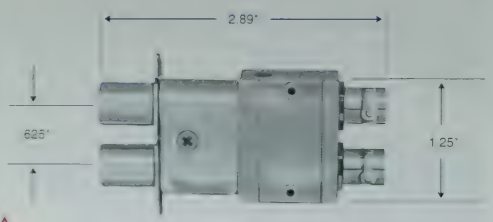
Miniature 75Ω Coax Dual/Quad Jacks pages 25

Finding/Ordering cable connectors pg 70, ⚠- Cable Group# pg 71-75/ Compatibility pg 76, **R**-Resistance, **Panels** pg 8, **Tools** pg 78-79

Coax Patching

Standard Coax Normal-Through Patch Jacks

Normal-Through Patch Jacks J14 Series



ZIP-SHIP

The **J14 Series** of dual coax jacks automatically provide a normal-through signal path without the use of looping plugs or patch cords. Normalizing switch contacts utilize a unique self-wiping action for positive contact.

Mounting tabs are normally "back-to-back" as shown.
To order "side-to-side" tabs for horizontal mounting, add "**L**" to the part number for **left-hand tabs** or "**R**" for **right-hand tabs.**

Panels pages 9-11

New Twinax Normal-through patch jacks

Pages 31-33

J14 Series 50Ω RCA Standard

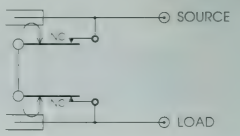
Rear Entry	Configuration	Center-pin	Part #
BNC	Unterminated	.070"	J14
BNC	Terminated	.070"	J14T-R
BNC	Monitor	.070"	J14M
BNC	Monitor-Terminated	.070"	J14MT-R
TNC	Unterminated	.070"	J14H
TNC	Terminated	.070"	J14HT-R
TNC	Monitor	.070"	J14MH
TNC	Monitor-Terminated	.070"	J14MHT-R
Cable crimp	Unterminated	.070"	J14C-⚠
Cable crimp	Terminated	.070"	J14CT-R-⚠
Cable crimp	Monitor	.070"	J14MC-⚠
Cable crimp	Monitor-Terminated	.070"	J14MCT-R-⚠

J14 Series 75Ω WE Standard

Rear Entry	Configuration	Center-pin	Part #
BNC	Unterminated	.090"	J14W
BNC	Terminated	.090"	J14WT-R
BNC	Monitor	.090"	J14WM
BNC	Monitor-Terminated	.090"	J14WMT-R
TNC	Unterminated	.090"	J14WH
TNC	Terminated	.090"	J14WHT-R
TNC	Monitor	.090"	J14WMH
TNC	Monitor-Terminated	.090"	J14WMHT-R
Cable crimp	Unterminated	.090"	J14WC-⚠
Cable crimp	Terminated	.090"	J14WCT-R-⚠
Cable crimp	Monitor	.090"	J14WMC-⚠
Cable crimp	Monitor-Terminated	.090"	J14WMCT-R-⚠

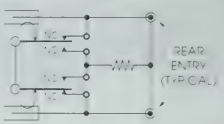
Unterminated: Schematics

Inserting a plug into either side breaks the normal-through.



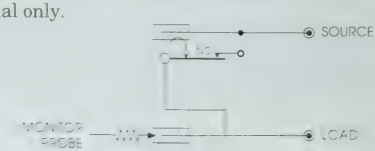
Terminated:

Provides a resistive load to the unused side. Inserting a plug into the source side automatically terminates the load side. Insertion into the load side automatically terminates the source side.



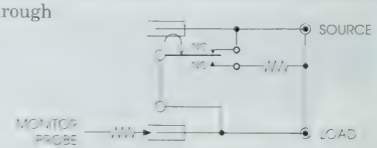
Monitor:

Inserting a plug into the source side breaks the normal-through. Insertion into the load side monitors the normal-through signal only.



Monitor-Terminated:

Inserting a plug into the source side provides a resistive load to the load side. Insertion into the load side monitors the normal-through signal only.



Finding/Ordering cable connectors pg 70 ⚠ - Cable Groups pg 71-75 Compatibility pg 76 R-Resistance (1/2 W 1%) Panels pg 8 Tools pg 78-79

Coax Patching

Standard Coax Patch Jacks & Audio Patching

Normal-Through Patch Jack — J17 Series

Single Leg

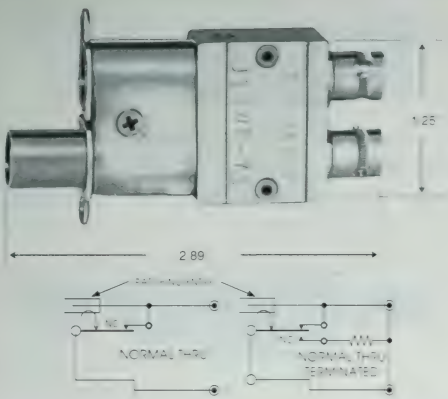
Features are the same as the J14 Series, page 16.
Mount in JSN / JSIN-20 panels only. Call factory for details.

50Ω RCA Standard

Rear Entry	Configuration	Center-pin	Part#
BNC	Unterminated	.070"	J17
BNC	Terminated	.070"	J17T-R
TNC	Unterminated	.070"	J17H
TNC	Terminated	.070"	J17TH-R

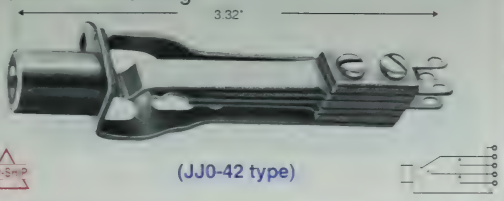
75Ω WE Standard

Rear Entry	Configuration	Center-pin	Part#
BNC	Unterminated	.090"	J17W
BNC	Terminated	.090"	J17WT-R
TNC	Unterminated	.090"	J14WH
TNC	Terminated	.090"	J17WTH-R



Audio Jack — M641/3-2

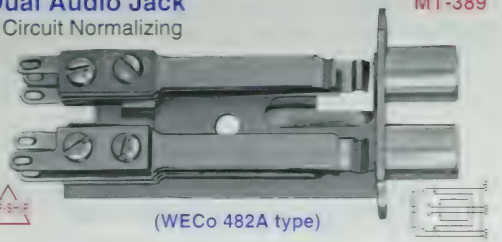
3 Circuit Normalizing



(JJ0-42 type)

Dual Audio Jack — MT-389

3 Circuit Normalizing

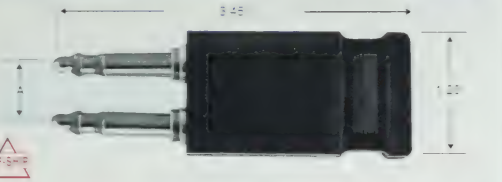


(WECo 482A type)

Audio Looping Plug — ALP3 / ALPL3

3 Circuit

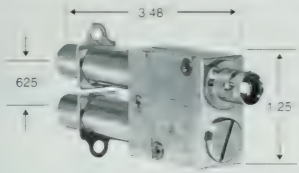
A=0.625" ALP3
A=1.000" ALPL3



Adapter Jack — Coax to Twinax/Triax

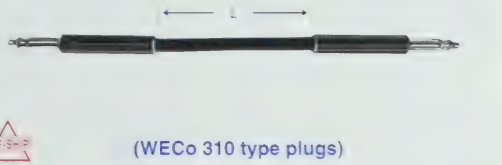
Tip-Tip patch jack to concentric TRB

75Ω WE Center pin .090" J75W



Audio Patch Cord — APC3-L

3 Circuit

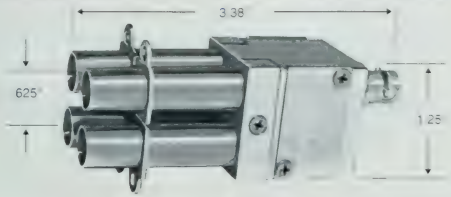


(WECo 310 type plugs)

Adapter Dual Jack — Coax toTwinax/Triax

Tip-Tip patch jack to concentric TRB

75Ω WE. Center pin .090" J76W



Audio Video Patch Cord

Handle	A	Standard	Center Pin	Part#
Green	0.625"	50Ω RCA	.070"	AVPC-L-50
Green	1.000"	50Ω RCA	.070"	AVPCL-L-50
Violet	0.625"	75Ω WE	.090"	AVPCW-L-75
Violet	1.000"	75Ω WE	.090"	AVPCLW-L-75

L-Length in inches, R-Resistance (1.2 W 1%) Panels pg 8, Tools pg 78-79

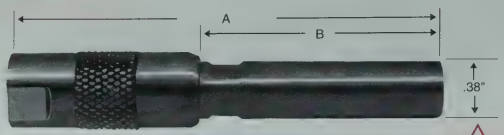
Coax Patching

Standard Coax Patch Plugs

Patch Plug
Shield Crimp

50Ω RCA Center pin .070" A=2.73" B=1.50" ..... PL1C-⚠
75Ω WE Center pin .090" A=2.45" B=1.29" ... PL1WC-⚠

Bend relief page 27

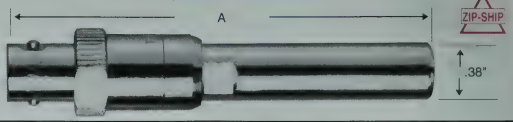


(WECo 358 type)

Adapters
Patch Plug to BNC/TNC

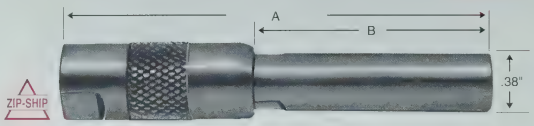
50Ω RCA plug Center pin .070" ..... 50Ω BNC ..... A =2.77" AD1
50Ω RCA plug Center pin .070" ..... 50Ω TNC ..... A =2.77" ADH1
75Ω WE Center pin .090" ..... 75Ω BNC ..... A =2.83" AD1W
75Ω WE Center pin .090" ..... 75Ω TNC ..... A =2.83" ADH1W

(WECo 358 type)



Patch Plug
Cable Entry, Field Serviceable

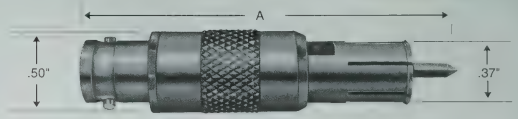
For RG58 50Ω RCA Center pin .070" ..... A=2.80" B=1.56" PL1
For RG59 50Ω RCA Center pin .070" ..... A=2.80" B=1.56" PL2
For RG58 75Ω WE Center pin .090" ..... A=2.52" B=1.29" PL1W
For RG59 75Ω WE Center pin .090" ..... A=2.52" B=1.29" PL2W



Probe Plug
BNC rear access

50Ω RCA plug Center pin .070" ..... 50Ω BNC MP4
75Ω WE Center pin .090" ..... 75Ω BNC MP4W

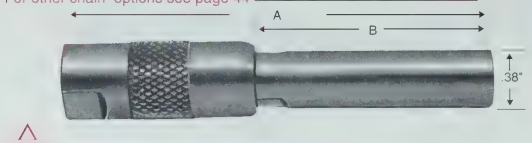
Monitors J14 without interrupting normal-through signal.



Termination Plug

No chain 50Ω RCA Center pin .070" A=2.73" B=1.50" TP-1-R
No chain 75Ω WE Center pin .090" A=2.50" B=1.23" TPW-1-R

For other chain options see page 44

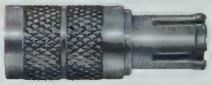


(WECo 340C type)

RFI Cap
Patch Plug

No chain For 50Ω RCA or 75Ω WE patch jack RFI20-1

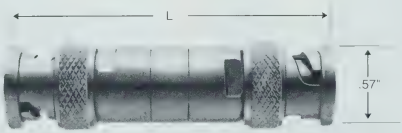
For other chain options see page 44



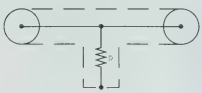
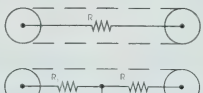
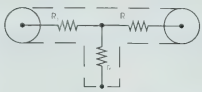
BNC Attenuator

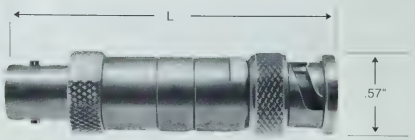
Connector type	L	Part#
50Ω plug & jack	3.24"	TNA-Z-dB-BNC
75Ω plug & jack	3.24"	UTNA-Z-dB-BNC
50Ω plugs	3.17"	TNA-Z-dB-BNC/M
75Ω plugs	3.17"	UTNA-Z-dB-BNC/M
50Ω jacks	3.30"	TNA-Z-dB-BNC/F
75Ω jacks	3.30"	UTNA-Z-dB-BNC/F

Video frequency max. 10MHz, Attenuation 20dB max.



BNC Pads

Schematic	Impedance	L	Part#
	50Ω	2.16"	TNA2-R
	75Ω	2.16"	UTNA2-R
	50Ω	2.16"	TNA3-R
	75Ω	2.16"	UTNA3-R
	50Ω	3.23"	TNA4-R
	75Ω	3.23"	UTNA4-R



Finding/Ordering cable connectors pg 70, ⚠ - Cable Group# pg 71-75/ Compatibility pg 76,
dB-Attenuation, **R**-Resistance (1/2 W 1%), **Tools** pg 78-79

TROMPETER ELECTRONICS INC (818) 707-2020 Fax (818) 706-1040

Coax Patching

Standard Coax Patch Cords & Cable Assemblies

Trompeter's coax patch cords and cable assemblies are of the highest quality and can be ordered in any length. Trompeter normally stocks popular lengths of **6", 12", 18", 24",** and **36"**.

Standard coax patch cords and cable assemblies are made with the following cables:

Impedance	Type	Part#
50Ω	RG58	TCC-50-2
75Ω	RG59	TCC-75-2
93Ω	RG62	N/A

Patch Cords and Cable Assemblies are available in **50Ω RCA Standard** and/or **75Ω Western Electric (WECo)Standard.** The two standards are not intermateable.

"Z" denotes the impedance of the connecting cable.

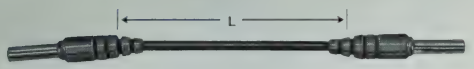
Custom Coax Cable Assemblies:
pages 64-65

Patch Cord

Patch plug to patch plug

50Ω RCA plug Center pin .070" — PC-L-Z

75Ω WE Center pin .090" — PCW-L-Z



ZIP-SHIP

Cable Assembly
Tool crimp

BNC plug to BNC plug

50Ω BNC — PCYC-L-Z

75Ω BNC — UPCYC-L-Z

Tip-Tip Patch Cord

75Ω WE Center pin .090" — PTWD-L-Z

Twinax cable- 78Ω and 124Ω only

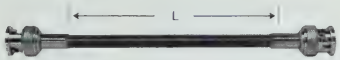
(WECo 408 type)

Cable Assembly
Wrench crimp

BNC Plug to BNC plug

50Ω BNC — PCY-L-Z

75Ω BNC — UPCY-L-Z

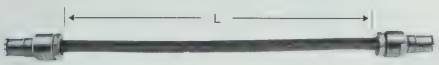


Cable Assembly

Push-on plug to push-on plug

50Ω Push-on — PCP-L-Z

75Ω Push-on — UPCP-L-Z



Wrench crimp push-on plugs fit both BNC and TNC jacks

Cable Assembly

Patch plug to BNC plug

50Ω RCA plug Center pin .070" ..... 50Ω BNC ..... PCX-L-Z

50Ω RCA plug Center pin .070" ..... 75Ω BNC ..... UPCX-L-Z

75Ω WE Center pin .090" ..... 50Ω BNC ..... PCWX-L-Z

75Ω WE Center pin .090" ..... 75Ω BNC ..... UPCWX-L-Z

Cable Assembly

Patch plug to push-on plug

50Ω RCA plug Center pin .070" ..... 50Ω Push-on ..... PCPX-L-Z

50Ω RCA plug Center pin .070" ..... 75Ω Push-on ..... UPCPX-L-Z

75Ω WE Center pin .090" ..... 50Ω Push-on ..... PCPWX-L-Z

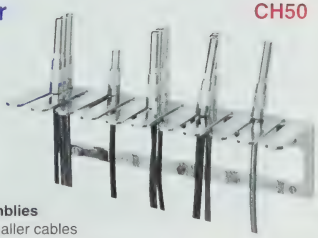
75Ω WE Center pin .090" ..... 75Ω Push-on ... UPCPWX-L-Z

Wrench crimp push-on plugs fit both BNC and TNC jacks

Patch Cord Holder
Wall mount

CH50

ZIP-SHIP



Black epoxy over steel
10.75" wide x 4.50" deep

Holds up to 50 cable assemblies
For use with .75" dia. and smaller cables

L-Length in inches, Z-Impedance 50Ω,75Ω or 93Ω

Coax Patching

Standard Coax Looping Plugs and Paralleling

Looping Plugs

ZIP-SHIP

Handle: B=1.51" C=.625" D=1.20"	Center Pin	50Ω RCA
Plain	.070"	LP-Z
Pinch	.070"	LPP-Z
Test Point Single	.070"	LPTP-Z
Test Point Dual	.070"	LP2TP-Z
BNC Monitor	.070"	LPA-Z

Handle: B=1.51" C=1.00" D=1.57"	Center Pin	50Ω RCA
Plain	.070"	LPL-Z
Test Point Single	.070"	LPLTP-Z
BNC Monitor	.070"	LPLA-Z

Handle : B=1.25" C=.625" D=1.20"	Center Pin	75Ω WE
Plain	.090"	LPW-Z
Pinch	.090"	LPPW-Z
Test Point Single	.090"	LPWTP-Z
Test Point Dual	.090"	LPW2TP-Z
BNC Monitor	.090"	LPWA-Z

Handle: B=1.25" C=1.00" D=1.57"	Center Pin	75Ω WE
Plain	.090"	LPLW-Z
Test Point Single	.090"	LPLWTP-Z
BNC Monitor	.090"	LPLWA-Z

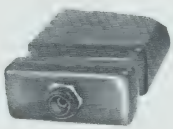
Handles are color coded

Green = 50Ω Violet = 75Ω White = 93Ω

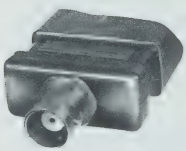
Pinch

Dual Test Point

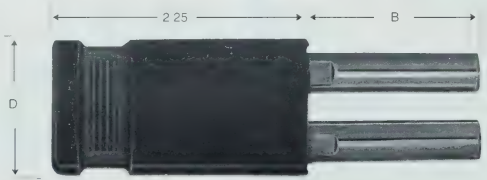
Single Test Point



BNC Monitor

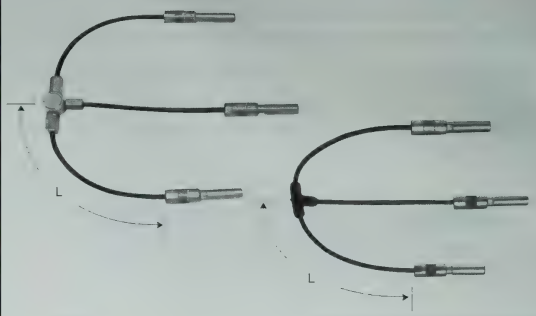


Plain Handle



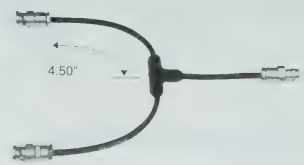
Patch Cords — Triple Paralleling

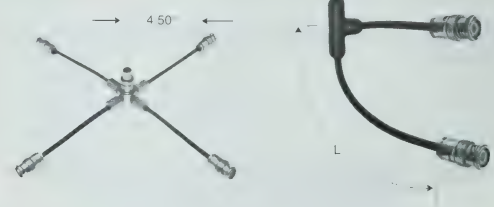
Junction	Standard	Maximum Length	Part#
Molded	50Ω RCA Center pin-.070"	14"	PCS-L-Z
Metal	50Ω RCA Center pin-.070"	None	PCSE-L-Z
Molded	75Ω WE Center pin-.090"	14"	PCWS-L-Z
Metal	75Ω WE Center pin-.090"	None	PCWSE-L-Z



Cable Assemblies — Random Paralleling

Junction	Connectors	Part#
Molded	50Ω BNC-Two plugs, one jack	*PN2B-Z
Molded	75Ω BNC-Two plugs, one jack	*UPN2B-Z
Metal	50Ω BNC-Two plugs, one jack	PN2BE-Z
Metal	75Ω BNC-Two plugs, one jack	UPN2BE-Z
Molded	50Ω BNC-Three plugs, no jack	*PN3-Z
Metal	50Ω BNC-Three plugs, no jack	PN3E-Z
Metal	50Ω BNC-Four plugs, one jack	PN4-Z





*-50Ω or 75Ω only

L-Length in inches, Z-Cable Impedance-50Ω, 75Ω & 93Ω

TROMPETER ELECTRONICS INC VISA MasterCard (818) 707-2020 Fax (818) 706-1040

Coax Patching
Standard Coax Paralleling

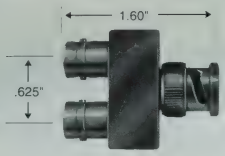
Adapter
50Ω BNC-One jack, Two plugs

Fixed Paralleling
PN2

ZIP-SHIP

Adapter
50Ω BNC-Two jacks, One plug

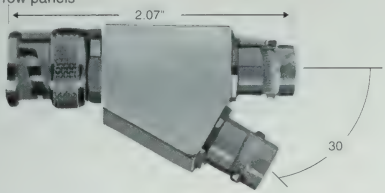
Fixed Paralleling
PN2A



ZIP-SHIP

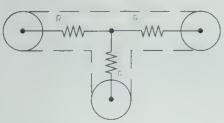
Adapter
50Ω BNC-Two jacks, One plug
For two-row panels

Fixed Paralleling
PN2C

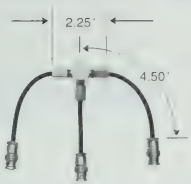


ZIP-SHIP

Patch Cord
50Ω BNC
Maximum 10 MHz

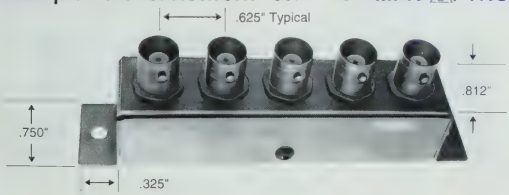


Power Divider
PD3-Z



Adapter
Multiple Parallel Network

50Ω BNC **MPN-△2/ BNC**
50Ω TNC **MPN-△2/ TNC**



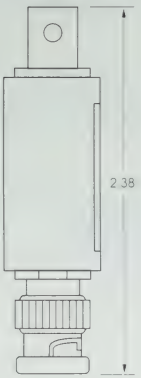
Adapters
50Ω BNCs

Fixed Paralleling

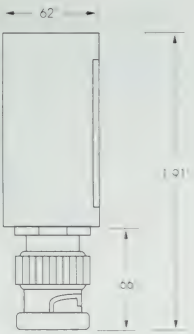
"L"	One Input	No input
0.625"	PNS-B-△2	PNSX-B-△2
0.750"	PNS-C-△2	PNSX-C-△2
0.830"	PNS-D-△2	PNSX-D-△2
0.875"	PNS-E-△2	PNSX-E-△2
1.000"	PNS-F-△2	PNSX-F-△2
1.125"	PNS-G-△2	PNSX-G-△2
1.210"	PNS-H-△2	PNSX-H-△2
1.250"	PNS-J-△2	PNSX-J-△2
1.430"	PNS-K-△2	PNSX-K-△2

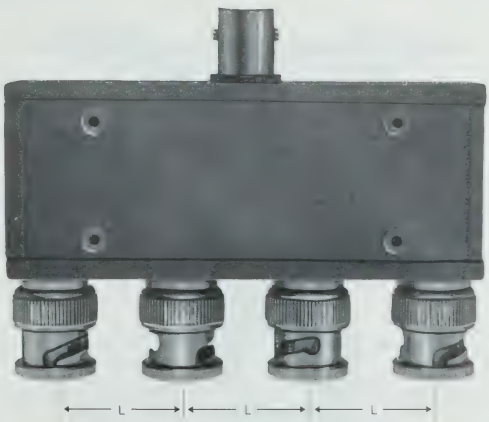
△2 = Number of Connectors

One Input



No Input



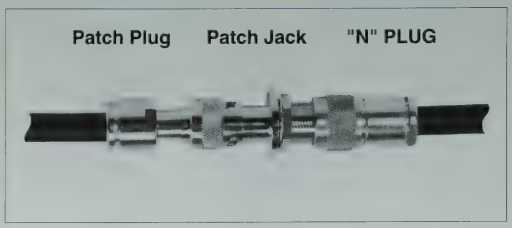


Z-50Ω, 75Ω & 93Ω, △2-Number of connectors

Coax Patching

Standard Coax Low VSWR Patching 50Ω

Typical Low VSWR Assembly



Trompeter's 50Ω low VSWR (1.11:1) patching system has been developed for use at frequencies up to 3GHz and at power levels up to 500 watts.

J94 jack accepts an **"N" male plug** in back and the **PL93-⚠** or **PL94-⚠** in the front of the panels shown or a custom panel of your own design.

Patch plugs incorporate a **push-fit design** that **snaps into position** in the jack and are available with or without a bayonet locking feature.

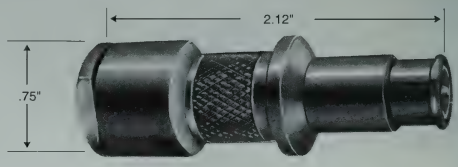
Normal jack spacing is 3" center-to-center.

For a minimum bend radius when patching adjacent jacks, use Trompeter standard patch cords made with RG8 cable with a minimum length of 14 ". Otherwise the minimum length is 18".

Panels loaded at no additional cost!
See page 8

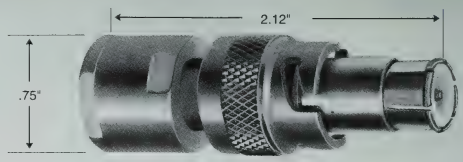
Patch Plug — PL93

50Ω-Without locking sleeve



Patch Plug — PL94-⚠

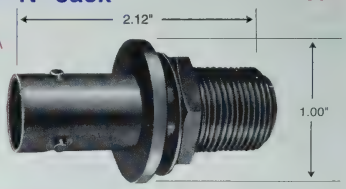
50Ω-With locking sleeve



Patch Jack to "N" Jack — J94

50Ω

Threaded .625-24UNEF-2A

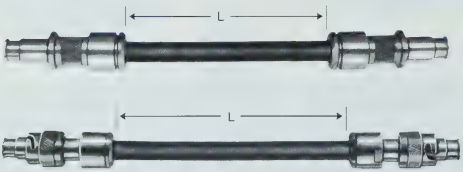


ZIP-SHIP

CC1.312-Mounting holes page 12

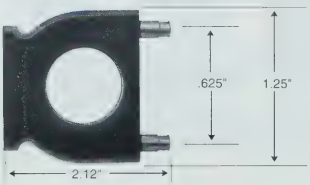
Patch Cords — 50Ω

Patch plug without locking sleeve — PCH-L-50
Patch plug with locking sleeve — PCHY-L-50



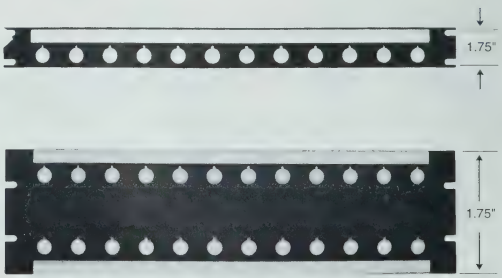
Looping Plug — LPH-50

50Ω-Green handle



Panels for J94

# of Holes	Notching	Panel Type	Part#
12	Open	Common Ground	JSH-12
12	Closed	Insulated	JSHI-12
24	Open	Common Ground	JSH-24
24	Closed	Insulated	JSHI-24



Finding/Ordering cable connectors pg 70, ⚠ - Cable Group# pg 71-75/ Compatibility pg 76, **Tools** pg 78-79

TROMPETER ELECTRONICS, INC. (818) 707-2020 Fax (818) 706-1040

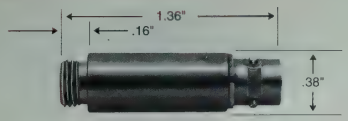
Coax Patching

Miniature Coax Patch Jacks & Plugs 50Ω

Miniature Patch Jack — J8

50Ω TPS jack

Threaded panel mounting .32-32UNEF-2A

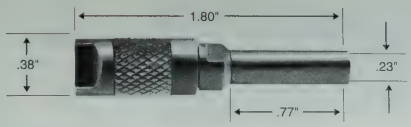


ZIP-SHIP

Miniature Patch Plug — PL3-4

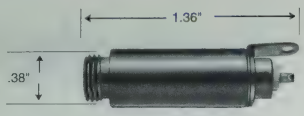
50Ω Cable entry- Field Serviceable

Cable group 4 only (Belden 8218)



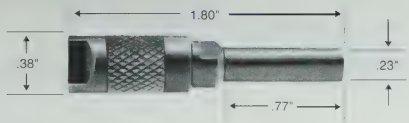
Miniature Patch Jack — J8D

50Ω Solder pot



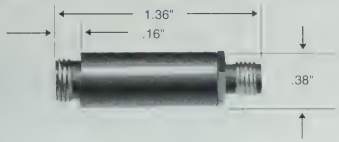
Miniature Patch Plug — PL3C-⚠

50Ω Shield Crimp



Miniature Patch Jack — J308

50Ω TCM jack



Subminiature Cable Plug — PL50-⚠ / PL350-⚠

Wrench Crimp

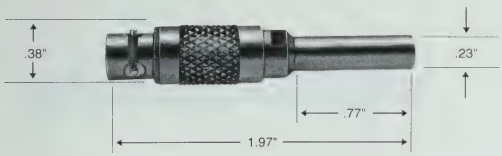
50Ω TPS, 3-lug

50Ω TCM, Threaded

ZIP-SHIP

Adapter — ADM1

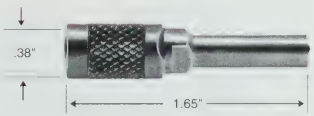
50Ω Miniature patch plug to 50Ω TPS jack



RFI Cap — RFI50-1

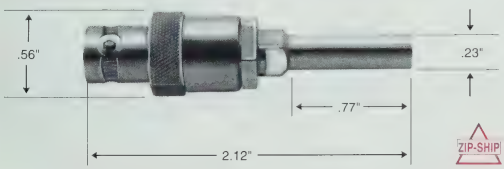
No chain-For miniature patch jack

For other chain options see page 44



Adapter — ADM2

50Ω Miniature patch plug to 50Ω BNC jack



ZIP-SHIP

Additional Terminations & RFI Caps
Page 44

Custom Coax Patch Cords & Cable Assemblies made with Trompeter components
Page 64-65

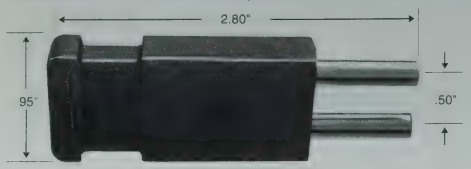
Finding/Ordering cable connectors pg 70. ⚠ - Cable Group# pg 71-75/ Compatibilty pg 76. **Tools** pg 78-79

Coax Patching

Miniature Coax Patching Accessories 50Ω

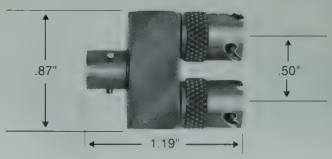
Miniature Looping Plug — LPM-Z

Handle color: Green=50Ω, Violet=75Ω, White=93Ω



Adapter — Fixed Paralleling — PNM2

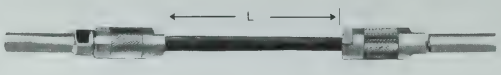
50Ω TPS-One jack, Two plugs



ZIP-SHIP

Patch Cord — PCM-L-Z

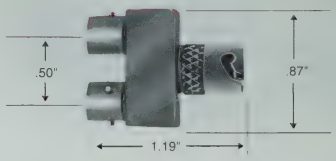
50Ω Miniature patch plugs



Adapter — Fixed Paralleling — PNM2A

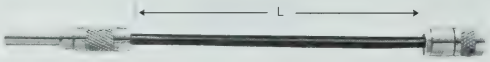
50Ω TPS-Two jacks, One plug

For **JS-32, JSI-32, JS-96B,** and **JSI-96B** panels only



Cable Assembly — PCMX-L-Z

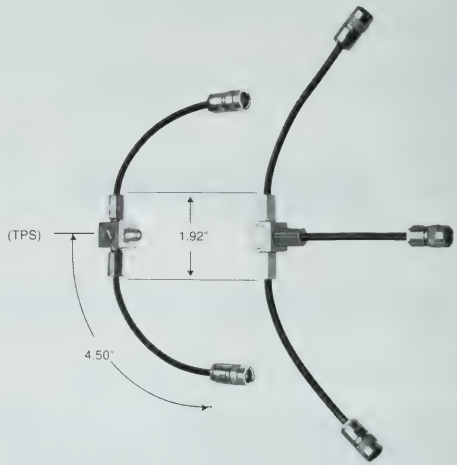
50Ω Miniature patch plug to TPS plug



Cable Assemblies — Random Paralleling

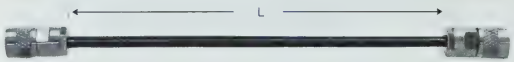
50Ω TPS plugs/jacks

Junction	Connectors	Part#
Metal	Two plugs, One jack	PNM2B-Z
Metal	Three plugs, No jacks	PNM3-Z
Metal	Four plugs, No jacks	PNM4-Z



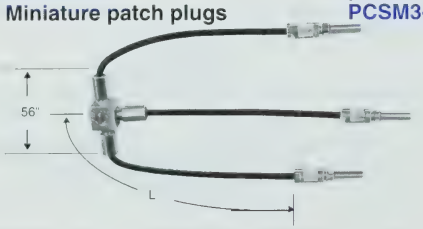
Cable Assembly — PCMY-L-Z

50Ω TPS plugs



Patch Cord — Triple Parallel — PCSM3-L-Z

50Ω Miniature patch plugs



L-Length in inches, Z-Cable Impedance 50Ω, 75Ω & 93Ω, **Panels-** page 11

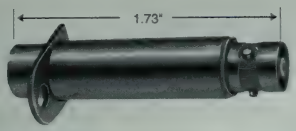
TROMPETER ELECTRONICS INC VISA MasterCard (818) 707-2020 Fax (818) 706-1040

Coax Patching

Western Electric Miniature Coax Patch Jacks 75Ω

Miniature Patch Jack — J11

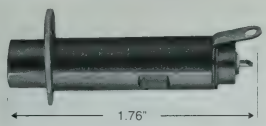
75Ω TPS, Mini WECo type



ZIP-SHIP

Miniature Patch Jack — J11D

75Ω Solder pot, Mini WECo type

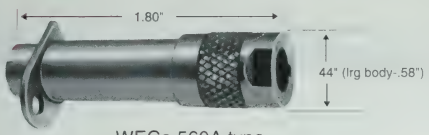


ZIP-SHIP

Miniature Patch Jack — J12-⚠

75Ω Cable entry, Field serviceable, Mini WECo type

Minimum .64" centers



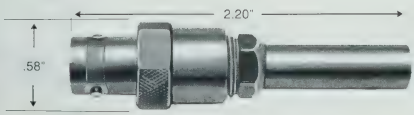
WECo 560A type

Miniature Patch Jack — J12C-⚠

75Ω Tool Crimp, Mini WECo type

Adapter — ADMW12

75Ω Miniature Patch plug (Mini WECo type) **to 75Ω BNC**

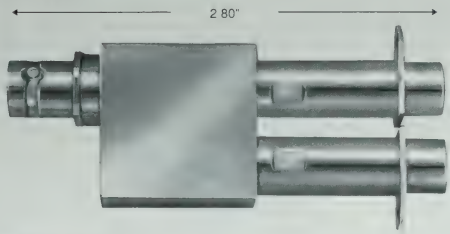


ZIP-SHIP

Dual Miniature Patch Jacks — J15MW Series

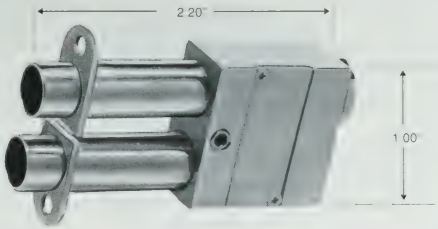
Entry	Type	Prewired?		Part#
BNC	Single	Y	Mini WECo	J15MWB
BNC	Single	Y	Mini WECo	J15MWBA
TPS	Single	Y	Mini WECo	J15MWTPS
TPS	Single	N	Mini WECo	J15MWTPSA
Cable	Single	N	Mini WECo	J15MW-⚠

BNC Type



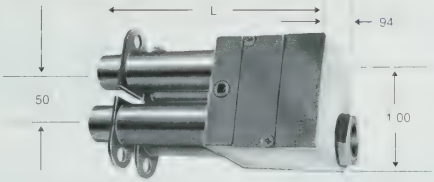
Cable Entry

Normally one rear entry connection.
Provisions for one or two coax/twinax cables.



Quad Miniature Patch Jack — J16MW-⚠

75Ω Cable entry, Mini WECo type



TPS Subminiature BNC Cable Plugs

page 43

Terminations & RFI Caps

page 44

Finding/Ordering cable connectors pg 70, ⚠ - Cable Group# pg 71-75/ Compatibilty pg 76, **Panels**- pg 12, **Tools** pg 78-79

Coax Patching

Western Electric Miniature Coax Patching 75Ω

Normal-Through Patch Jack — J18 Series

75Ω Mini-WECo type

Unterminated: Dual coax jack automatically provides a normal-through signal path. Normaling switch contacts utilize a **unique self-wiping action** for positive contact.

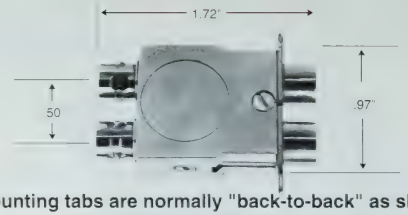
Terminated Version: Plug insertion automatically provides a resistive load to the unused side. Patched out sources and loads are automatically switched **"break before make"** and terminated into a specified resistance.

Monitor, Monitor-Terminated, and Crimp versions are available. Call factory.

TPS Rear Connection

Version	Rear Connector		Part#
Unterminated	TPS	75Ω Mini WECo	J18
Terminated	TPS	75Ω Mini WECo	J18T-R
Unterminated	TCM	75Ω Mini WECo	J318
Terminated	TCM	75Ω Mini WECo	J318T-R

See page 16 for schematics



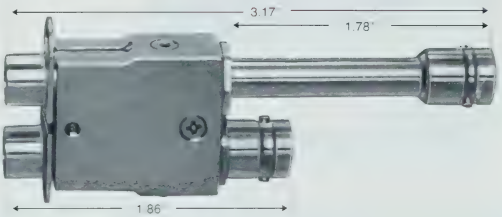
Mounting tabs are normally "back-to-back" as shown.

To order "side-to-side" tabs for horizontal mounting, add the letter "**L**" to the part number for left-hand tabs or "**R**" for right-hand tabs.

BNC Rear Connection

Version	Rear Connector		Part#
Unterminated	75Ω BNC	75Ω Mini WECo	J18B
Terminated	75Ω BNC	75Ω Mini WECo	J18BT-R

See page 16 for schematics



Dual Video RGBS Application: Mounted **24** on a 1.75"x19" panel in groups of 3 + 1 (RGB+Sync) to provide proper orientation to avoid cross signals.

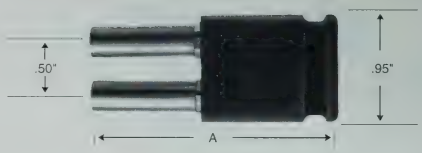
Miniature Looping Plugs — 75Ω

Handle	A	Part#
Plain	2.95	LPMW-Z
Plain	2.21"	LPMWS-Z
Test Point Monitor	2.95"	LPMWTP-Z
TPS Monitor	2.95"	LPMWA-Z

TPS Monitor

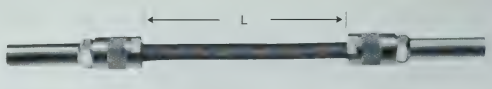
Test Point Monitor

Plain Handle



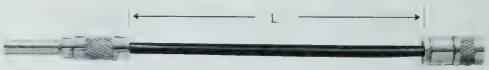
Miniature Patch Cord — PCMW-L-Z

75Ω Miniature patch plugs (Mini WECo type)



Cable Assembly — PCMWX-L-Z

75Ω Miniature patch plug (Mini WECo type) **to TPS plug**



Cable Assembly — PCMY-L-Z

TPS to TPS

L-Length in inches. R-Resistance 50Ω, 75Ω & 93Ω (1/2 W 1%). Z-Cable Impedence 50Ω, 75Ω & 93Ω, Panels-pg 12

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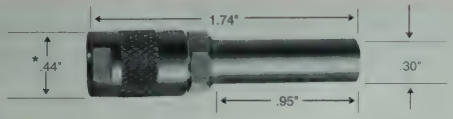
Coax Patching

Miniature Coax Patch Plugs 75Ω, Bend Relief Boots/Springs

Miniature Patch Plug — PL11-⚠

75Ω Wrench Crimp

Recommended for use on panels with a minimum of .62" between centers.

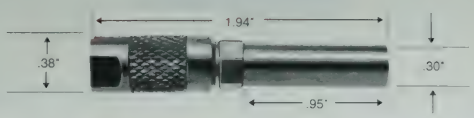


(WE440 type) * **.58" dia.** for cable grps 015, 016, and 020

Termination — TPMW-1-R

No chain 75Ω Miniature patch plug

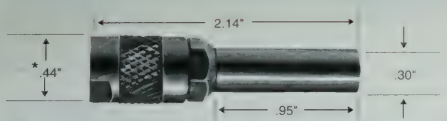
For other chain options see page 44



Miniature Patch Plug — PL11C-⚠

75Ω Tool Crimp

Recommended for use on panels with a minimum of .62" between centers.



(WE440 type) * **.58" dia.** for cable grps 015, 016, & 020

ZIP-SHIP

Subminiature TPS Cable Plug — 3-lug PL50-⚠

Wrench Crimp

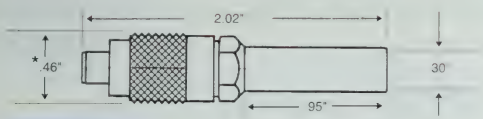
Mates with J11, J15 and J18 jacks.

ZIP-SHIP

Miniature Patch Plug — PL11AC-⚠

75Ω All Crimp

Recommended for use on panels with a minimum of .62" between centers



(WE440 type) * **.58" dia.** for cable grps 015, 016, and 020

Termination — TNB1-1-R

For TPS jack, No chain

For other chain options see page 44

Bend Relief Boots/Springs: Minimize cable damage when exceeding the cables minimum bend radius.

Bend Relief Boots: Bend relief boots, made of tough **105° PVC**, are available for the following **Trompeter** connectors.

For **Standard patch plugs.**
Cable group **013** only

Violet ACB013-7
Clear ACB013

For **PL20, PL40, PL74, PL75, PL75FL, PL375**
(Wrench crimp connectors)
Cable groups **1, 2** & **5** only

Black ACA⚠-0

For **PL220, PL240**
(Tool crimp connectors)
Cable groups **011** & **013** only

Clear ACC⚠

Violet patch plug bend relief boots (ACB013-7) are **standard** on the following **75Ω coax patch cords**:

PC-L-75, PCW-L-75, PCX-L-75, PCWX-L-75

Boots may be assembled to the cable/connector using **3M ScotchGrip™ No. 1099** plastic adhesive or equivalent

ZIP-SHIP

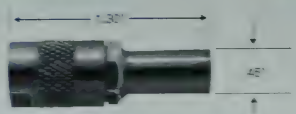
Bend Relief Springs: **Plastic-coated tempered steel wire,** are assembled as an integral part of the clamp-nut assembly.
Available for specific **Trompeter** connectors, patch cords and cable assemblies.
For **bend relief spring connectors**, see "**BR**" **column**.
Connector Compatibility Tables, page 76. Call Factory for availability

Finding /ordering cable connectors pg 70, ⚠-Cable Group# pg 71-75/ Compatibility pg 76.
R- Resistance 50Ω, 75Ω, & 93Ω (1/2 W 1%), **Tools** pg 78-79

Concentric Twinax/Triax Patching

Subminiature Patch Jacks & Plugs

Subminiature Patch Plug — PL150-*



Twinax/ Triax Patch Cords & Cable Assemblies

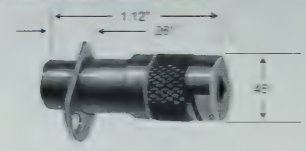
Trompeter's twinax/triax patch cords and cable assemblies are of the highest quality and can be ordered in any length. Trompeter normally stocks popular lengths of **6", 12", 18", 24" & 36"**. TRB 2-lug, 4-lug and Threaded versions available.

Custom Twinax/Triax Cable Assemblies

page 66-68

Subminiature Patch Jack — J150-*

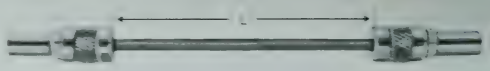
Cable Entry Mount on JSK panels page 84



Patch Cord — PTRM-L-Z / PTWM-L-Z

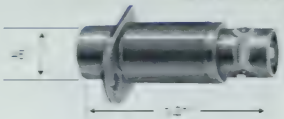
Subminiature patch plug to subminiature patch plug

Triax 50Ω, 75Ω — PTRM-L-Z
Twinax 78Ω, 124Ω — PTWM-L-Z



Subminiature Patch Jack — J152 / J152FL / J3152

TRS 3-lug — J152
TRS 4-lug — J152FL
TOM Threaded — J3152



Cable Assembly — PTRMX-L-Z / PTWMX-L-Z

Subminiature patch plug to TRS 3-lug plug, 4-lug/threaded versions available

Triax 50Ω, 75Ω — PTRMX-L-Z
Twinax 78Ω, 124Ω — PTWMX-L-Z

RFI Cap — RFI 150-1

For subminiature patch jack. No chain

For other chain options see page 44

Cable Assembly — PTRMY-L-Z / PTWMY-L-Z

TRS* 3-lug plug to TRS* 3-lug plug

Triax 50Ω, 75Ω — PTRMY-L-Z
Twinax 78Ω, 124Ω — PTWMY-L-Z

*4-lug/threaded versions available

Termination — TPTWM-1-R

For subminiature patch jack. No chain

For other chain options see page 44

Cable Assembly — Random Paralleling — TNM3-Z

Metal junction — Twinax 78Ω, 124Ω, Triax 50Ω & 75Ω

TRS* 3-lug plugs *4-lug/threaded versions available

Termination — TNGM1-1-R

For TRS* 3-lug jack. No chain

For other chain options see page 44

*4-lug/threaded versions available

Finding/Ordering cable connectors pg T0 · Cable Groups pg T1-T5 Compatibility pg T6
L-Length in inches, R-Resistance (1 2 W 1%), Z- Cable Impedance, Tools pg T8-T9

Concentric Twinax/Triax Patching

Subminiature & Standard Looping Plugs

Subminiature Looping Plugs

Handle	Impedance	Twinax
Blue	78Ω	LPTWM-78
Blue TRS Jacks	78Ω	LPTWMA-78
Blue Test Point	78Ω	LPTWM2TP-78
Blue	124Ω	LPTWM-124
Blue TRS Jacks	124Ω	LPTWMA-124
Blue Test Point	124Ω	LPTWM2TP-124

Handle	Impedance	Triax
Yellow	50Ω	LPTRM-50
Yellow	75Ω	LPTRM-75

Plain Handle

TRS Jack

Test Point

Terminations & RFI Caps
page 56

Custom Twinax/Triax Patch Cords
& Cable Assemblies
pages 66-68

For Subminiature twinax triax jacks, see pages 53-55

Standard Looping Plugs

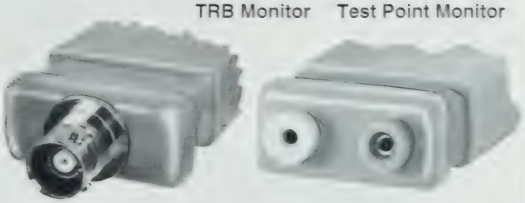
Handle: A=.625" B=1.20"	Impedance	Twinax
Plain	78Ω	LPTW-78
Test Point Monitor	78Ω	LPTW2TP-78
TRB Monitor	78Ω	LPTWA-78
Plain	124Ω	LPTW-124
Test Point Monitor	124Ω	LPTW2TP-124
TRB Monitor	124Ω	LPTWA-124

Handle: A=1.00" B=1.57"	Impedance	Twinax
Plain	75Ω	LPLTW-78
Test Point Monitor	75Ω	LPLTW2TP-78
TRB Monitor	75Ω	LPLTWA-78
Plain	124Ω	LPLTW-124
Test Point Monitor	124Ω	LPLTW2TP-124
TRB Monitor	124Ω	LPLTWA-124

Handle: A=.625" B=1.20"	Impedance	Triax
Plain	50Ω	LPTR-50
TRB monitor	50Ω	LPTRA-50
Plain	75Ω	LPTR-75
TRB Monitor	75Ω	LPTRA-75

Handle: A=1.00" B=1.57"	Impedance	Triax
Plain	50Ω	LPLTR-50
TRB monitor	50Ω	LPLTRA-50
Plain	75Ω	LPLTR-75
TRB Monitor	75Ω	LPLTRA-75

TRB Monitor Test Point Monitor



Plain Handle

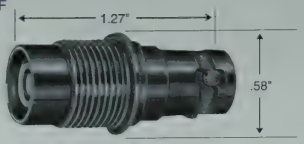
For Standard twinax triax jacks, see pages 30-33

Concentric Twinax/Triax Patching

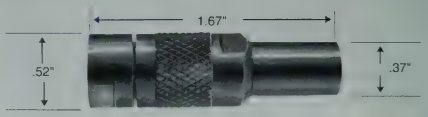
Standard Patch Plugs, Jacks, Cords & Cable assemblies

Patch Jack — J70

Threaded .5-28 UNEF

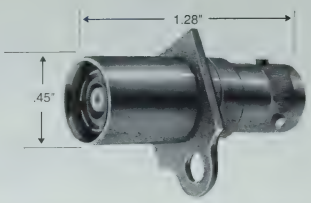


Patch Plug — PL71-⚠



Patch Jack — J72

TRB 3-lug

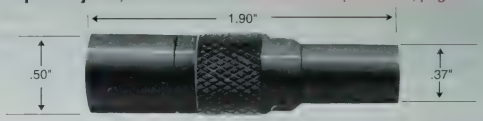


ZIP-SHIP

Termination — TPT-1-R

RFI Cap — RFI 70-1

For patch jack, No chain For other chain options see, page 44



Twinax/Triax Patch Cords & Cable Assemblies

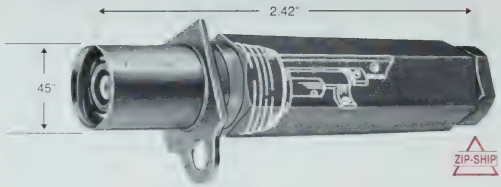
Trompeter normally stocks popular lengths of **6", 12", 18", 24",** and **36".**

Custom Coax/Twinax/Triax Cable Assemblies- pages 64-68

Patch Jack — Shielded

Without hood — J72D

With hood — J72S- ⚠



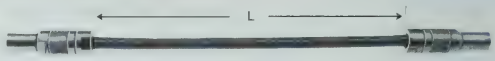
ZIP-SHIP

Patch Cord — PTW-L-Z / PTR-L-Z

Patch plug to patch plug

Twinax PTW-L-Z

Triax PTR-L-Z

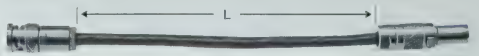


Cable Assembly — PTWX-L-Z / PTRX-L-Z

TRB 3-lug plug to patch plug

Twinax PTWX-L-Z

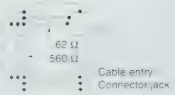
Triax PTRX-L-Z



Patch Jack — Single Entry

With 20 dB isolated monitoring jack

Entry	Part #
TRB 3-lug (shown)	J72SM-1
TRT Threaded	J72SM-2
Cable	J72SM- ⚠



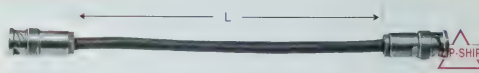
Cable Assembly — PTWY-L-Z / PTRY-L-Z

TRB 3-lug plugs

Bend relief available

Twinax PTWY-L-Z

Triax PTRY-L-Z



ZIP-SHIP

Parallel Patch Cord — PTWS-L-Z / PTRS-L-R

Twinax PTWS-L-Z

Triax PTRS-L-R

Finding/Ordering cable connectors pg 70. ⚠ - Cable Group# pg 71-75/ Compatibility pg 77. R-Resistance (1/2 W 1%). Tools pg 78-79

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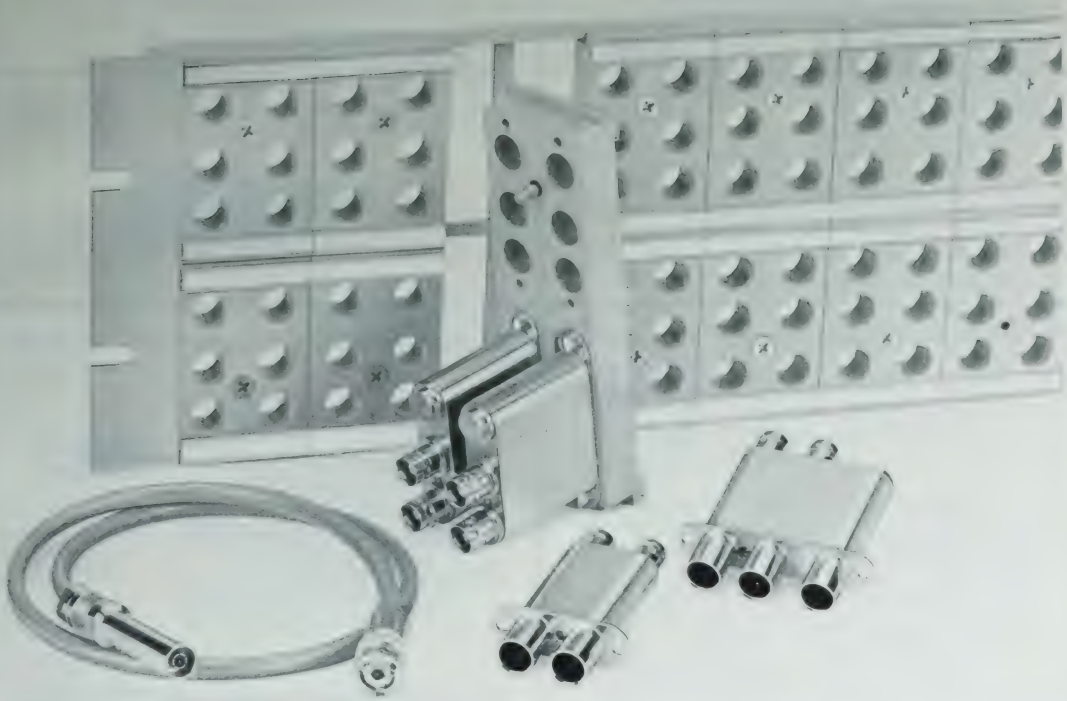
Introducing Trompeter's J74 family of twinax/triax dual patch jacks.

Including matching patch jacks, patch plugs, looping plugs, monitor plugs, panels, patch cords and cable assemblies.



Trompeter's J74 Series of dual twinax/triax self-normaling jacks are designed for use in **mil/aero** and **commercial 78Ω/124Ω applications** where signals must be protected from extraneous noise through non-signal-carrying shielding, and interfacing connectors must provide contact surfaces isolated from each other and from their outer shields.

These tough new components, combined with **Trompeter's** proven lines of twinax/triax products, provide matching connectors and cable for improving the transmission capabilities and interference rejection of data transmission systems.

Trompeter components will meet or exceed **MIL-STD-1553B** ground support/check-out requirements. MIL-STD-1553B addresses twinax applications for computerized/ multiplexed digital data distribution systems servicing the many functions of Command, Control, Communications and Intelligence (C^3I) and was originally designed for military aircraft. A 78Ω twinax/triax cable is used to provide the transmitted digital information with the needed protection from magnetic, electrostatic and electromagnetic pulse (EMP) interference. Complete shielding along the transmission path must be maintained.

MIL-STD-1553B applications are found in military surface ships, aircraft, and in many military/commercial ground applications such as telemetry, radar, satellite signal, data network, and perimeter security for airports, armories, and other government installations.

For Twinax/Triax connectors QPL'd to MIL-C-49142, see page 59

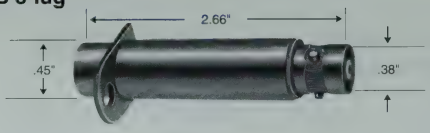
Concentric Twinax/Triax Patching

New Products!

Standard Twinax/Triax Normal-Through Patch Jacks

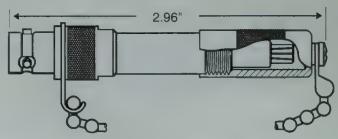
Twinax Patch Jack — J72L

TRB 3-lug

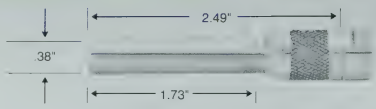


Twinax Monitor Plug — MP74-2

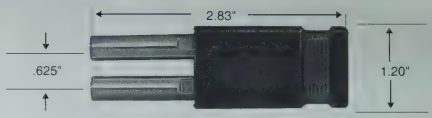
For the **J74T-R** & **J74-2T-R**



Twinax Patch Plug — PL71L-⚠



Twinax Looping Plug — LPTWL-Z

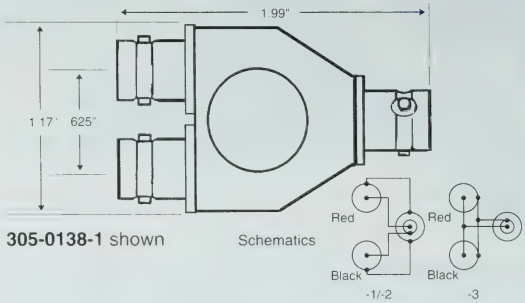


Fixed Paralleling Jacks

2 BNC jacks to 1 TRB jack (Schematic A) — **305-0138-1**

2 BNC plugs to 1 TRB jack (Schematic A) — **305-0138-2**

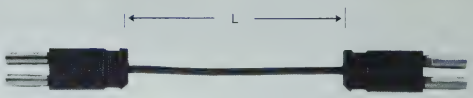
2 BNC plugs to 1 TRB jack (Schematic B) — **305-0138-3**



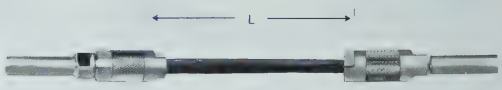
305-0138-1 shown

Schematics

Twinax Dual Patch Cord — DPLTWLS-L-Z



Twinax Patch Cord — PTWL-L-Z

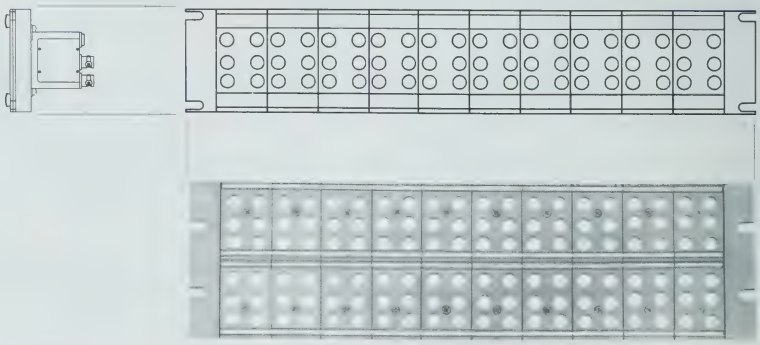


Front-loading Modular Panels

For J74MST-R jacks

(JSISM-120 module shown below)

Panel Dimensions	Modules/Panel	Jacks/Module	Jacks/Panel	Part #
2.65" x 19.00"	10	2	20	JSISM-60
5.25" x 19.00"	10	4	40	JSISM-120



R-Resistance (1/2 W 1%), **Z**-Cable Impedance, ⚠-TEI Cable Group#-pg 71-75, Compatibility pg 77

For additional information contact your local Rep-pages 94-96, or call... **1-800 982-COAX,** In California call... **1-800-655-2028**

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Concentric Twinax/Triax Patching

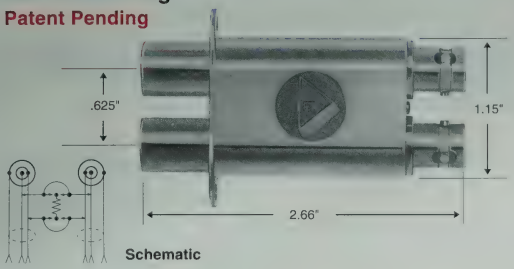
New Products!

Standard Twinax/Triax Normal-Through Patch Jacks

Normal-Through Patch Jack — J74T-R

Self-terminating

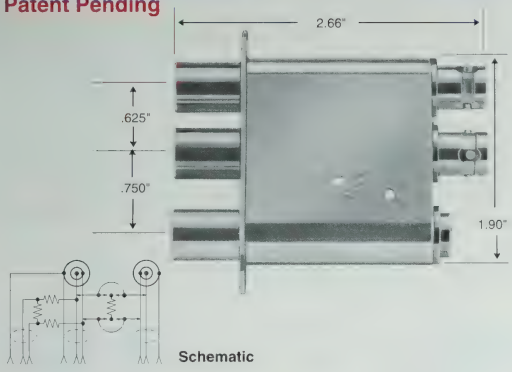
Patent Pending



Provides a resistive load to the unused side of the jack. Insertion of a patch plug into the source side automatically terminates the load side. Plugging into the load side automatically terminates the source side.

Monitor-Terminated — J74MST-R

Patent Pending

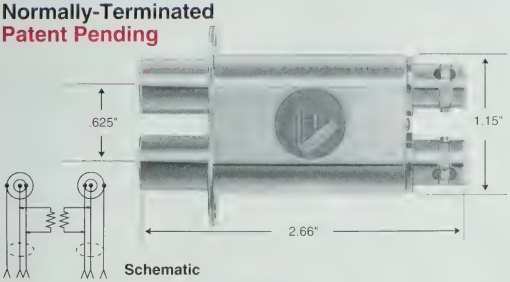


Plugging into the source side provides a resistive load to the monitored side. Separate 20 dB isolator jack and TRB input jacks for monitoring of the normal-through signal.

Dual Patch Jack — J74-2T-R

Normally-Terminated

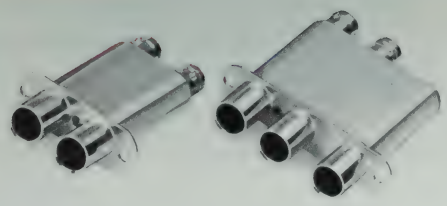
Patent Pending



Provides a resistive load.

Dual Patch Jacks — J74 Series

Patent Pending



Trompeter's J74 Series of connectors are dual twinax//triax jacks which automatically provide a normal-through signal path without the use of looping plugs or patch cords.

Features & Benefits:

- **Same size as our J14 normal-through coax patch jack.**
  24 jacks on a 1.75"x 19" or 3.5" x 19" panel.
  48 jacks on a 5.25" x 19" panel.
  Replace or mix with coax patching.
- **Self-wiping, self-normaling switch with gold plated beryllium-copper contacts.**
  Positive electrical contact for over **30 thousand cycles.**
- **All metallic parts machined, formed or die cast to extremely close tolerances.**
  Better intermateability improves EMI/RFI suppression and reduces signal loss.
- **Heat treated beryllium-copper center socket contact with 50 millionths inch gold plating.**
  Superior spring properties maintain contact resilience. Positive electrical contact over thousands of cycles.
- **TRB/TRT jack bodies made of top quality brass with a bright nickel-plated, non-tarnish finish.**
  Resists tarnishing and the associated reduction of conductivity.
- **Dielectrics made of machined Teflon™**
  Superior dielectric properties and heat resistance.

Twinax Cable

	78Ω	TWC-78-2
Plenum rated	78Ω	TWCP-78-2
	124Ω	TWC-124-2
Plenum rated	124Ω	TWCP-124-2

Twinax/Triax Cable Connectors

See pages 49-51

R-Resistance (1/2 W 1%)

Coax Connectors

Coax Connectors Introduction

Trompeter's quality coax connectors are designed with **"unique features"** to provide:

- **Superior mechanical performance for reliability and durability**
- **Simple construction for fast, easy assembly**
- **Excellent electrical performance**

Broadcast & Telecom Applications- page 5 **Custom Adapters**- pages 60-61 **Performance Specifications**- page 69

Trompeter's Coax Connectors are made with the following design features:

Standard Features:	Benefits:
All metallic parts are **machined/formed** to extremely close tolerances.	Improves EMI/RFI suppression and reduces signal loss. Better intermateability.
All bodies are made of **top quality brass** with a **bright nickel-plated, non-tarnish** finish, standard.	Resists tarnishing and the associated reduction of conductivity.
Fully enclosed, heat-treated, beryllium-copper outer conductor spring (Not half-hard slotted brass). **Patented feature!**	Prevents outer contact distortion and mechanical damage. Improves EMI/RFI suppression and reduces signal loss. Improves durability cycling providing positive electrical contact over thousands of cycles.
Heat-treated, beryllium-copper center socket contact with **50 millionths inch gold plating.**	Superior spring properties, maintains contact resilience. Improves durability cycling providing positive electrical contact over thousands of cycles.
All **dielectrics** are made of machined **Teflon™.**	Superior Teflon™ insulating properties to withstand the high temperatures encountered when soldering.

Coaxial Ground Filter Bulkhead Jacks

Bulkhead jacks with Ground Filter versions are designated in catalog by **"GF".**

For part numbers, performance specs and schematic-see page 39.

TNC version-BJ46GF BNC version-BJ26GF

These connectors reduce radiated electrical noise to meet EMI/RFI requirements of **F.C.C. Regulation** on **RFI Interference-Part 15, Subpart J**, as a result of **Docket 20780,** which limits allowable computer and peripheral equipment emissions to a range of **20 to 1000 MHz.** Radiated interference from HF components and electrical pulse harmonics are avoided by using a built-in capacitor which acts as a high pass filter to attenuate spurious HF signals while by-passing ground loop, directing contact current flow harmlessly to ground.

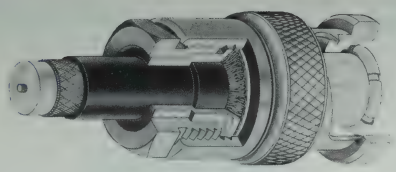
Coax Cable Assemblies
850 different assemblies
126 configurations using eight standard cables
page 64-65

Adapters
Coax to Coax/Twinax/Triax
page 60-61

Coax Connectors

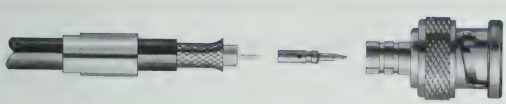
Coax Connectors Introduction

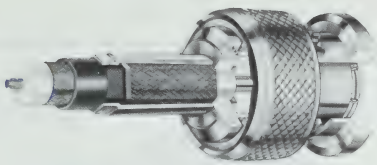
Trompeter's Coax Wrench Crimp BNC Connectors



Special Features:	Benefits:
3-piece construction.	Faster, easier assembly.
Captive center contact pin in cone assembly.	Prevents pistoning of the center contact when cable is flexed. Does not rely on cable for positioning.
Spring-loaded coupling ring using a beryllium-copper crescent washer.	Pre-loading the ring assures positive full mating. Reduces intermittences and rocking of mated connector. Assures mating is maintained in rugged applications.
Freely rotating captured insert inside the clamp-nut assembly.	Permits braid and jacket clamping without rotary movement. Prevents breaking the center conductor. Prevents twisting/tearing the braid. Increases connector-to-cable tensile pull-strength.
Stepped captured insert inside the clamp-nut assembly.	Grips the cable's outer jacket (25% of cable strength). Increases connector-to-cable tensile pull-strength.
360° metal-to-metal, sandwich braid capture of the outer-braid-to-cone assembly. (No insulation between the clamping surfaces.)	Provides a true metal-to-metal continuous shield. Minimizes EMI/RFI and TFE jacket cold-flow problems. Increases connector-to-cable tensile pull-strength.
Machined barb on the end of the cone assembly.	Grabs the inside of the cable braid for easier assembly Enhances the strength of the braid and jacket clamp.

Trompeter's Coax Tool Crimp BNC Connectors





Special Features:	Benefits:
Three piece construction.	Faster, easier assembly.
Captive center contact pin with 50 millionths inch gold plating.	Prevents center-contact pistoning when cable is flexed. Does not rely on cable for positioning.
Spring-loaded coupling ring using a beryllium-copper crescent washer.	Assures mating is maintained in rugged applications. Reduces rocking when connector is mated. Reduces intermittences.
Full 1/2 inch crimp sleeve.	Longer crimp sleeve area for mechanical crimp. Increases connector-to-cable tensile pull-strength.
Stepped crimp sleeve.	Grips the outer jacket (25% of cable strength) of the cable. Increases connector-to-cable tensile pull-strength.
Radial and axial grooves on ferrule.	Crimping embeds braid into grooves. Prevents radial and axial movement of the cable. Increases connector-to-cable tensile pull-strength.
.300 inch ferrule.	Longer ferrule area for mechanical crimp. Increases connector-to-cable tensile pull-strength.

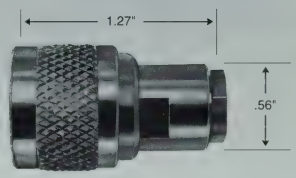
Coax Connectors

Standard Coax Threaded 95 Series, N Connectors

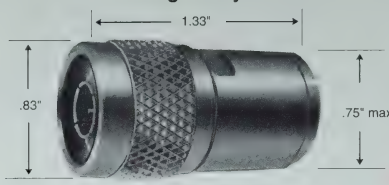
Cable Plug
Wrench Crimp

50Ω **PL95-⚠**
75Ω **UPL95-⚠**

Standard



Large Body

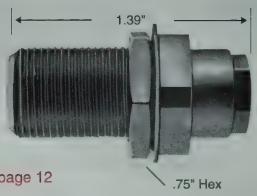


ZIP-SHIP

Bulkhead Cable Jack
Wrench Crimp

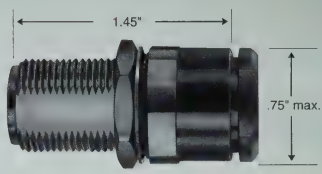
50Ω **BJ95-⚠**
75Ω **UBJ95-⚠**

Standard



DD4.310
Mounting holes page 12

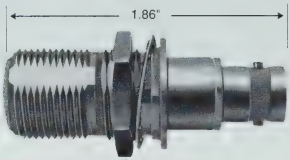
Large Body



DD1.310

Adapter
N to BNC

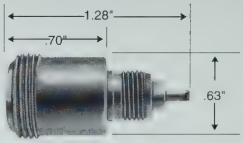
50Ω **AD95**
75Ω **UAD95**



DD4.203
Mounting holes page 12

Bulkhead Jack
Solder pot
With hex nut & washer, .375-32UNEF-2A

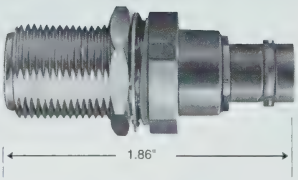
50Ω **J95-⚠**
75Ω **UJ95-⚠**



D3.130
Mounting holes page 12

Adapter
N to BNC, Insulated

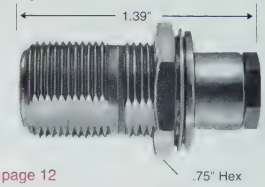
50Ω **ADI95**
75Ω **UADI95**



DD4.31
Mounting holes page 12

Insulated Bulkhead Cable Jack
Wrench Crimp

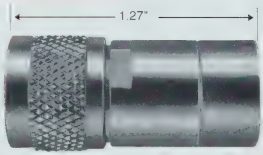
50Ω **BJ96-⚠**
75Ω **UBJ96-⚠**



DD4.203
Mounting holes page 12

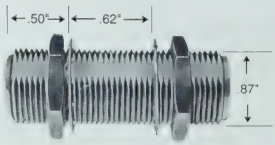
Termination
For N jack, No chain
For other chain options see page 44

50Ω **TNN1-1**
75Ω **UTNN1-1**



Feed-through Jack
For panels up to 2.25" thick. For thicker panels, call Factory

BJ98-2
UBJ98-2



DD4 2.25-Mounting holes page 12

Finding/ordering cable connectors pg 70, ⚠-Cable Group# pg 71-75/Cable Compatibility pg 76, **Tools** pg 78-79

TROMPETER ELECTRONICS INC VISA MasterCard (818) 707-2020 Fax (818) 706-1040

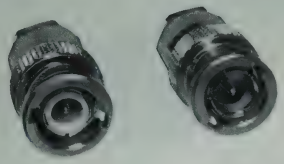
Coax Connectors

Miniature Coax 20/220 Series, BNC Plugs & Jacks

Cable Plug
Wrench Crimp

50Ω PL20-⚠
75Ω UPL20-⚠

50Ω

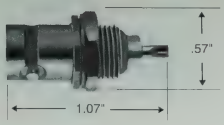


75Ω

ZIP-SHIP

Bulkhead Jack
Front Mount, Solder pot

50Ω BJ20
75Ω UBJ20

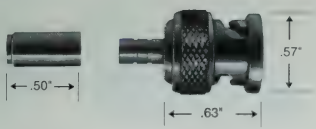


D5.125-Mounting holes page 12

ZIP-SHIP

Cable Plug
Tool Crimp

50Ω PL220-⚠
75Ω UPL220-⚠



ZIP-SHIP

Cable Jack
Wrench Crimp

50Ω CJ20-⚠
75Ω UCJ20-⚠

50Ω

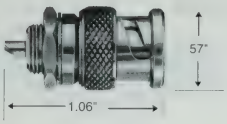
75Ω

*.57" for Cable Groups 6 & 6E

ZIP-SHIP

Bulkhead Plug
Front Mount, Solder pot

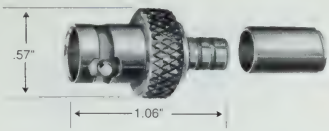
50Ω PL21
75Ω UPL21



C2.085-Mounting holes page 12

Cable Jack
Tool Crimp

50Ω CJ220-⚠
75Ω UCJ220-⚠



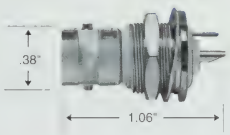
Cable Plug
Right Angle, Full Crimp
Slotted brass body

75Ω UPLRN220-⚠

ZIP-SHIP

Insulated Bulkhead Jack
Rear Mount, Solder pot

50Ω BJ21
75Ω UBJ21

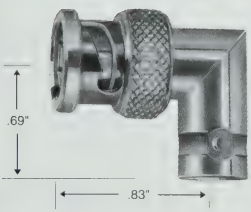


D3.147-Mounting holes page 12

ZIP-SHIP

Adapter
Right Angle
BNC plug to jack

75Ω UADRNMF20



ZIP-SHIP

BNC Coupling Adapter
(Barrel connector)

50Ω AD28
75Ω UAD28

ZIP-SHIP

Finding/ordering cable connectors pg 70, ⚠-Cable Group# pg 71-75/Cable Compatibility pg 76, **Tools** pg 78-79

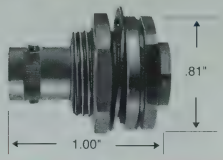
Coax Connectors

Miniature Coax 20/220 Series, BNC Bulkhead Jacks

Insulated Bulkhead Cable Jack
Wrench Crimp, Rear mount

50Ω **BJ26-⚠**
75Ω **UBJ26-⚠**

ZIP-SHIP

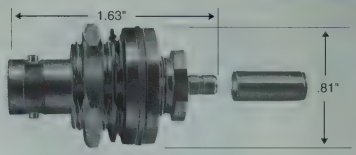


D2.187-Mounting holes page 12

GF-Ground filter version page 39

Insulated Bulkhead Cable Jack
Rear Mount, Tool Crimp

50Ω **BJ226-⚠**
75Ω **UBJ226-⚠**



D2.187
Mounting holes page 12

GF-Ground filter version page 39

Insulated Bulkhead Jack
Front Mount , Solder pot

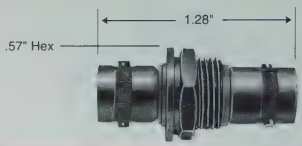
50Ω **BJ27**
75Ω **UBJ27**

D3.147-Mounting holes page 12

ZIP-SHIP

Insulated Bulkhead Jack
Feed-through

50Ω **BJ28**
75Ω **UBJ28**

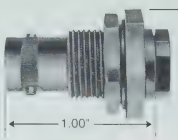


D3.156-Mounting holes page 12

ZIP-SHIP

Bulkhead Cable Jack
Rear Mount, Wrench Crimp

50Ω **BJ29-⚠**
75Ω **UBJ29-⚠**

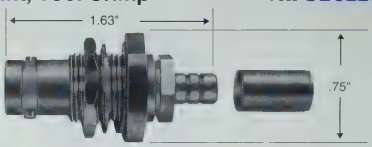


D3.218 (D2.218-Cable Groups 6 & 6E)-Mounting holes page 12

ZIP-SHIP

Bulkhead Cable Jack
Rear Mount, Tool Crimp

50Ω **BJ229-⚠**
75Ω **UBJ229-⚠**

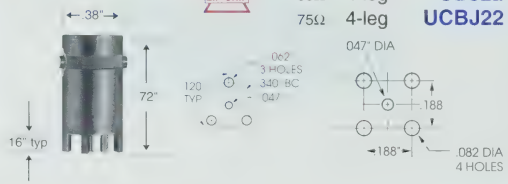


D3.218 (D2.218-Cable Groups 6 & 6E)-Mounting holes page 12

Circuit Board Jack*

ZIP-SHIP

50Ω 3-leg **CBJ20**
75Ω 3-leg **UCBJ20**
50Ω 4-leg **CBJ22**
75Ω 4-leg **UCBJ22**



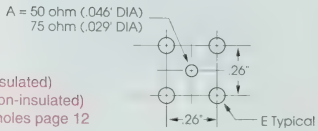
Circuit Board Jack*
Right Angle

H=.240" E=.0625"
50Ω **CBJR20**
75Ω **UCBJR20**
H=.340" E=.0700"
50Ω **CBJR20A**
75Ω **UCBJR20A**

ZIP-SHIP

Right Angle Circuit Board Bulkhead Jack*

H=.240" E=.0625" C=.565"
50Ω Insulated **CBBJR26**
50Ω Insulated **UCBBJR26**
75Ω Non-Insulated **CBBJR29**
75Ω Non-Insulated **UCBBJR29**
Add "**A**" for tall version ..... Example **CBBJR29A**
H=.340" E=.0700" C=.665"



D3.156 (Insulated)
D3.179 (Non-insulated)
Mounting holes page 12

ZIP-SHIP

Finding/ordering cable connectors pg 70. ⚠-Cable Group# pg 71-75/Cable Compatibility pg 76, **Tools** pg 78-79

***Note:** Circuit board connector dimensions & mounting patterns are for general reference only. Request top drawings for precise dimensions.

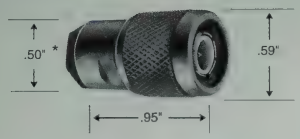
TROMPETER ELECTRONICS INC VISA MasterCard (818) 707-2020 Fax (818) 706-1040

Coax Connectors

Miniature Coax Threaded 40/240 Series, TNC Plugs & Jacks

Cable Plug
Wrench Crimp

50Ω PL40-⚠
75Ω UPL40-⚠

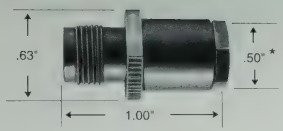


ZIP-SHIP

* .57" for Cable Groups 6 & 6E

Cable Jack
Wrench Crimp

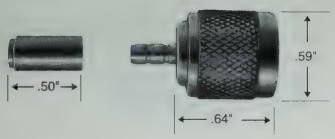
50Ω CJ40-⚠
75Ω UCJ40-⚠



* .57" for Cable Groups 6 & 6E

Cable Plug
Tool Crimp

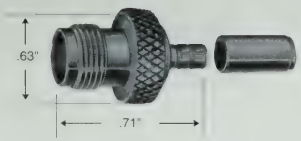
50Ω PL240-⚠
75Ω UPL240-⚠



ZIP-SHIP

Cable Jack
Tool Crimp

50Ω CJ240-⚠
75Ω UCJ240-⚠



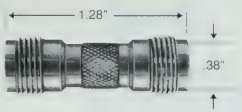
Bulkhead Plug
Front mount, Solder pot

50Ω PL41
75Ω UPL41

C2.093

TNC Coupling Adapter
(Barrel connector)

50Ω AD48
75Ω UAD48



Coaxial Ground Filter Bulkhead Jacks
Designated in catalog pages by "GF"

These connectors reduce radiated electrical noise to meet the EMI/RFI requirements of the F.C.C. regulation on **RFI interference - Part 15, Subpart J**, as a result of Docket 20780 which limits the allowable emissions from computers & their peripheral equipment to a range of **20 to 1000 MHz.**

Connector Type	Mounting Hole		Part Number
BNC, Wrench Crimp	D8.094	50Ω	BJ26GF-⚠
BNC, Tool Crimp	D8.094	50Ω	BJ226GF-⚠
BNC, Feed-through	D8.094	75Ω	UBJ28GF
BNC, Circuit board	D8.093	50Ω	CBBJ26GF
TNC, Wrench Crimp	D8.094	50Ω	BJ46GF-⚠
TNC, Tool Crimp	D8.094	50Ω	BJ246GF-⚠
TNC, Feed-through	D8.094	50Ω	BJ48GF
TNC, Circuit board	D8.093	50Ω	CBBJ46GF

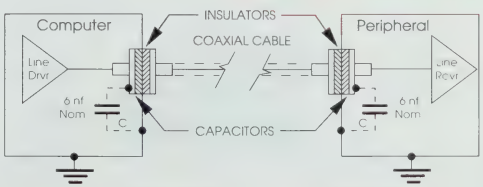
Designate 75Ω version by prefix "U"

ZIP-SHIP

Ground Filter Specifications

RF Insertion Loss: ..... 0.1 dB max. to 1 GHz
Dissipation Factor: ..... 5% max. @ 1 KHz & 25°C
Voltage Rating: ..... 200 VDC @ sea level & 25°C
Capacitance: ..... 4nF min., 10nF max. @ 1 KHz & 25°C
Insulation Resistance: ..... 1 Gigohm min.@ 200 VDC & 25°C
Dielectric Withstanding Voltage ..... 500 VDC @ sea level & 25°C for 1 minute
Filter RF Attenuation: 1MHz- 1dB, 3MHZ- 2dB 10MHz- 8dB, 30MHz- 16dB, 100/300/1000MHz- 30dB

Ground Filter Schematic



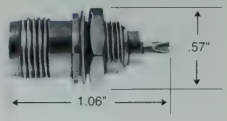
Finding/ordering cable connectors pg 70, ⚠-Cable Group# pg 71-75/Cable Compatibility pg 76. Tools pg 78-79

Coax Connectors

Miniature Coax Threaded 40/240 Series, TNC Bulkhead Jacks

Bulkhead Jack
Solder pot

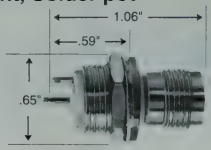
50Ω BJ40
75Ω UBJ40



D5.125-Mounting holes page 12

Insulated Bulkhead Jack
Front Mount, Solder pot

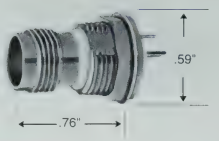
50Ω BJ47
75Ω UBJ47



D3.147-Mounting holes page 12

Insulated Bulkhead Jack
Rear Mount, Solder pot

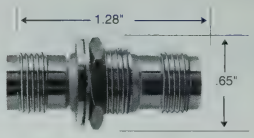
50Ω BJ41
75Ω UBJ41



D3.147-Mounting holes page 12

Insulated Bulkhead Jack
Feed-through

50Ω BJ48
75Ω UBJ48

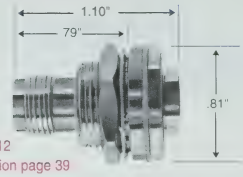


ZIP-SHIP

D3.156-Mounting holes page 12 GF-Ground filter version page 39

Insulated Bulkhead Jack
Rear Mount, Wrench Crimp

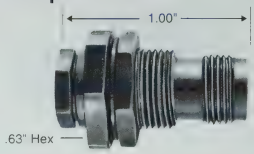
50Ω BJ46-⚠
75Ω UBJ46-⚠



D2.143
Mounting holes page 12
GF-Ground filter version page 39

Bulkhead Cable Jack
Wrench Crimp

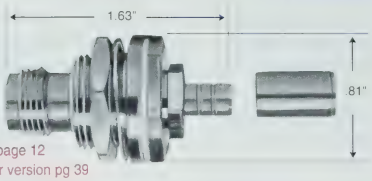
50Ω BJ49-⚠
75Ω UBJ49-⚠



D3.218
D2.218 (Cable Groups 6 & 6E)-Mounting holes page 12

Insulated Bulkhead Jack
Rear Mount, Tool Crimp

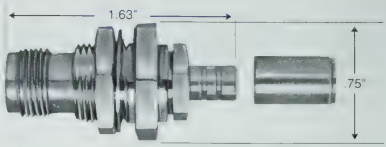
50Ω BJ246-⚠
75Ω UBJ246-⚠



D3.147
Mounting holes page 12
GF-Ground filter version pg 39

Bulkhead Cable Jack
Tool Crimp

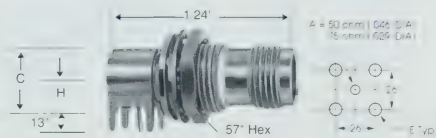
50Ω BJ249-⚠



D3.218
D2.218 (Cable Groups 6 & 6E)-Mounting holes page 12

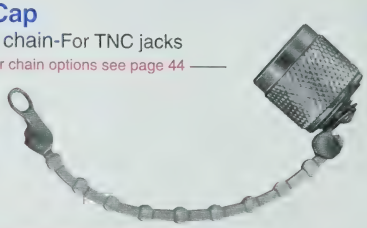
Circuit Board Jack
Right Angle

H=.24" E=.0625" C=.57" 50Ω CBBJR46
75Ω UCBBJR46
H=.34" E=.0700" C=.67" 50Ω CBBJR46A
75Ω UCBBJR46A



RFI Cap
Nylon chain-For TNC jacks
For other chain options see page 44

RFI45-3



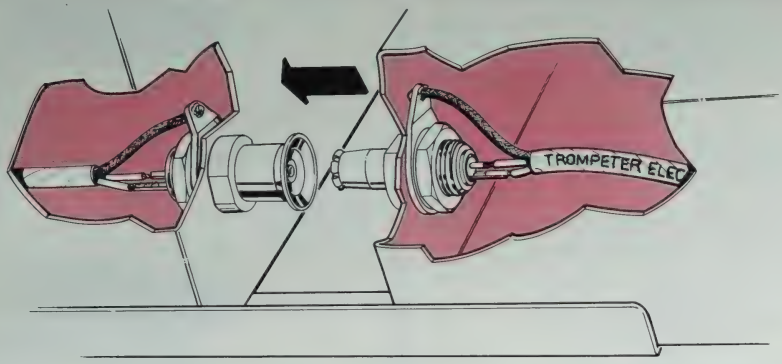
.14 " mounting hole for #4 screw

Finding/ordering cable connectors pg 70, ⚠-Cable Group# pg 71-75/Cable Compatibility pg 76, Tools pg 78-79

TROMPETER ELECTRONICS, INC. (818) 707-2020 Fax (818) 706-1040

Trompeter's 120 Series

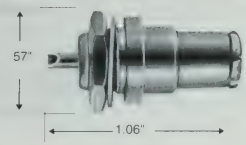
These BNC/TNC push-on jacks and plugs are designed for blind mate rack and panel applications. The male plugs mate with any BNC/TNC jack and are ideally suited for test/ cable applications.



Twinax/triax versions (BJ151bulkhead jack/PL151 panel plug-page 55) shown for illustration purposes.

Panel Plug
Front Mount, Solder pot

50Ω PL121
75Ω UPL121

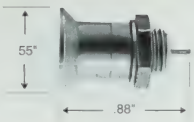


C2.085-Mounting holes page 12

ZIP-SHIP

Bulkhead Jack
Front Mount, Solder Lug

50Ω BJ120
75Ω UBJ122

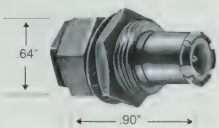


C1.120-Mounting holes page 12

ZIP-SHIP

Panel Plug
Rear Mount, Cable Entry

50Ω PL122-⚠
75Ω UPL122-⚠

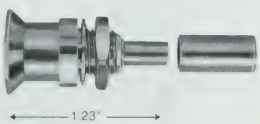


DD5.156-Mounting holes page 12

Bulkhead Cable Jack
Front Mount, Tool Crimp

Limited cable groups

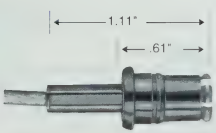
50Ω BJ120C-⚠
75Ω UBJ120C-⚠



C1.120-Mounting holes page 12

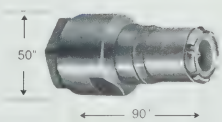
Cable Plug
Tool Crimp

50Ω PL223-⚠
75Ω UPL223-⚠



Cable Plug
Wrench Crimp

50Ω PL123-⚠
75Ω UPL123-⚠



Finding/ordering cable connectors pg 70, ⚠-Cable Group# pg 71-75/Cable Compatibility pg 76, **Tools** pg 78-79

Coax Connectors

Miniature Coax Threaded 130 Series, F Connectors

Trompeter's 130 Series

The **F connector** has traditionally been a low cost, pliers-crimp connector utilizing the cable's center conductor for a center contact. **Trompeter's F-type connectors** provide tough terminations for critical applications and allow for the use of stranded center conductors.

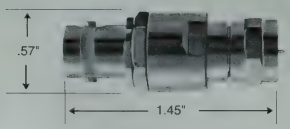
Trompeter's 130 Series incorporates many of the features of our BNC connectors.

- **3-piece wrench crimp configuration .**
- **Gold-plated, captive center contacts.**
- **Beryllium copper socket contacts.**
- **Teflon™ dielectrics.**

The **130 Series** will also accommodate **non-flammable FEP plenum coax cables.**

Adapter — 75Ω — AD130

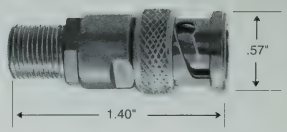
F Plug to BNC Jack



ZIP-SHIP

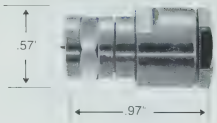
Adapter — 75Ω — AD133

F Jack to BNC Plug



Male Cable Plug — 75Ω — PL130-⚠1

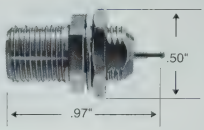
Wrench crimp



ZIP-SHIP

Bulkhead Cable Jack — 75Ω — BJ130

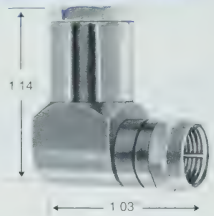
Front mount, Solder lug



DD2.094-Mounting holes page 12

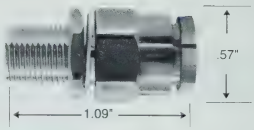
Right Angle Male Cable Plug — 75Ω — PL131⚠1

Wrench crimp



Bulkhead Cable Jack — 75Ω — BJ139-⚠1

Rear mount, Wrench Crimp



DD2.125-Mounting holes page 12

Finding/ordering cable connectors pg 70, ⚠1-Cable Group# pg 71-75/Cable Compatibility pg 76, **Tools** pg 78-79

OBSESSION: On-Time Delivery... *ZIP-SHIP Service*

ZIP-SHIP 24 HR. TROMPETER

Remember... the ***ZIP-SHIP*** symbol means that many of the most popular configurations of that connector are stock items. ***ZIP-SHIP*** items can be shipped within **24 hours** of receipt of your order by **FedEx, DHL, UPS** or via your routing.

ZIP-SHIP **part numbers are highlighted in red.**
(Available for specific configurations and availability may change)

For pricing and availability of ***ZIP-SHIP*** items or non-stock or custom items, contact your **local authorized Trompeter Representative** (see pages 94-95)

Coax Connectors

Sub-Miniature Coax Threaded 50/350 Series, TPS/TCM Jacks & Plugs

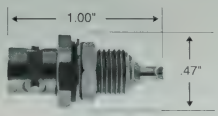
Cable Plug
Wrench Crimp

50Ω	3-lug	PL50-⚠
50Ω	4-lug	PL50FL-⚠
50Ω	Threaded	PL350-⚠

ZIP-SHIP

Bulkhead Jack
Front mount, Solder pot

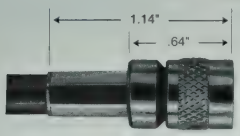
50Ω	3-lug	BJ50
50Ω	4-lug	BJ50FL
50Ω	Threaded	BJ350



D6.218-Mounting holes page 12

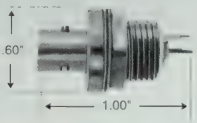
Cable Plug
Tool Crimp

50Ω	3-lug	PL50C-⚠
50Ω	4-lug	PL50CFL-⚠
50Ω	Threaded	PL350C-⚠



Insulated Bulkhead Jack
Front mount, Solder pot

50Ω	3-lug	BJ57
50Ω	4-lug	BJ57FL
50Ω	Threaded	BJ357



D4.171-Mounting holes page 12

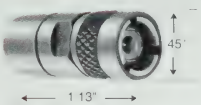
Push-on Plug
Wrench Crimp, TPS/ TCM

50Ω 3-lug PL53-⚠

Termination
For TPS jack, No chain

75Ω 3-lug TNB1-1-R

For other chain options see page 44



Cable Jack
Wrench Crimp

50Ω	3-lug	CJ50-⚠
50Ω	4-lug	CJ50FL-⚠
50Ω	Threaded	CJ350-⚠

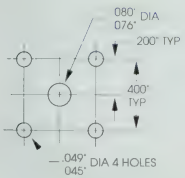
Feed-through Jack

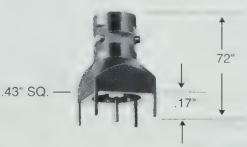
50Ω	3-lug	BJ58
50Ω	4-lug	BJ58FL
50Ω	Threaded	BJ358

D5.171
D4.171 (Threaded)-Mounting holes page 12

Circuit Board Jack

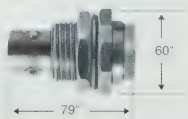
50Ω	3-lug	CBJ50
50Ω	4-lug	CBJ50FL
50Ω	Threaded	CBJ350





Bulkhead Jack
Wrench Crimp

50Ω	3-lug	BJ59-⚠
50Ω	4-lug	BJ59FL-⚠
50Ω	Threaded	BJ359-⚠



D4.125-Mounting holes page 12

Finding/ordering cable connectors pg 70, ⚠-Cable Group# pg 71-75/Cable Compatibility pg 76, Tools pg 78-79

Coax Terminations & RFI Caps

Trompeter provides **Termination** and **RFI cap** versions of many of our coax connectors.

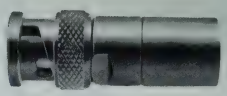
Resistors are normally **1/8 watt for subminiature** connectors and **1/2 watt for miniature and standard** size connectors with **1% tolerances for all.**

RFI 25-2

Ordering Instructions:

Terminations: Example-**PL20 BNC termination** for a **BNC jack** with **75Ω** resistance and no chain.

Order part number: ..... TNA1 - 1 - 75
Part number from below
③ -Chain #
R -Resistance



TNA1-1-Ω

RFI Caps: Example-**Patch plug cap** for a **J3** coax patch jack with **no chain.**

Order part number: ..... RFI 20 - 1
Part number from below
③ -Chain #

ZIP-SHIP

Termination Description	Page	Mating Part	Part Number
PL20 BNC*	37	BNC jacks	TNA1- ③ -R
CJ20 BNC*	37	BNC plugs	TNAF1- ③ -R
PL123 BNC/TNC push -on*	41	BNC/TNC jacks	TNAP1- ③ -R
PL220 BNC midget	37	BNC jacks	TNAS1- ③ -R
CJ220 BNC midget*	37	BNC plugs	TNASF1- ③ -R
PL220 Short push-on*	37	BNC/TNC jacks	TNASP1- ③ -R
PL50 TPS	43	TPS jacks	TNB1- ③ -R
PL130 F	42	F jacks	TNF1- ③ -R
PL40 TNC*	39	TNC jacks	TNH1- ③ -R
CJ40 TNC*	39	TNC plugs	TNHF1- ③ -R
PL95 N*	36	N jacks	TNN1- ③ -R
BJ95 N*	36	N plugs	TNNBJ1- ③ -R
PL94 Precision	22	J94 jack	TNP1- ③ -R
PL1 RCA Standard plug	18	RCA standard jacks	TP- ③ -R
PL3 Miniature plug	23	Miniature jacks	TPM- ③ -R
PL1WC WE miniature plug	18	WE miniature jacks	TPMW- ③ -R
PL93 Precision push-on	22	J94 jacks	TPP- ③ -R
PL1W WECO plug	18	WECO standard jacks	TPW- ③ -R

RFI Cap Description	Page	Mating Part	Part Number
Patch plug cap	14	J3/J3W	RFI 20- ③
BNC jack cap	37	PL20	RFI 21- ③
BNC plug cap	37	BJ20	RFI 25- ③
TNC jack cap	40	PL40	RFI 45- ③
Miniature patch jack cap	23	J8	RFI 50- ③
TPS plug cap	43	BJ50	RFI 55- ③
TPS jack cap	43	PL50	RFI 57- ③
PL94 patch plug cap	22	J94	RFI 94- ③
N plug cap	36	BJ95	RFI 96- ③
N jack cap	36	PL95	RFI 97- ③
F plug cap	42	BJ130	RFI 130- ③
TPS threaded jack cap	43	TPS threaded plug	RFI355- ③

***Asterisked connectors:**
Order **75Ω version** by **prefixing part number** with **"U".** Example: UTNA1-1-75

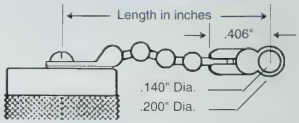
③ Chain Numbers:

Length	Type	Dash Number
N/A	No chain	-1
2.5"	Brass chain	-2
3.0"	Brass chain	-4
6.0"	Brass chain	-6
2.5"	Nylon chain	-3
3.0"	Nylon chain	-5
6.0"	Nylon chain	-7

New Product Option!

2.5"	Jacketed Stainless-steel rope	-8
3.0"	Jacketed Stainless-steel rope	-9
6.0"	Jacketed Stainless-steel rope	-10

Mounting Lugs



Standard Mounting Lug

New Product Option!

To order **mounting lugs for jacks** with the **"D" mounting hole numbers** listed below, **add** the **"D" hole number** to the part number.

Example: ..... RFI 20-1-D2

Inside Diameter	D-Hole#
.630"-.635"	D2
.505"-.510"	D3
.439"-.443"	D4
.380"-.384"	D5

Mounting hole specifications-page 12

Cable Plug, N Type, Right Angle
Wrench Crimp

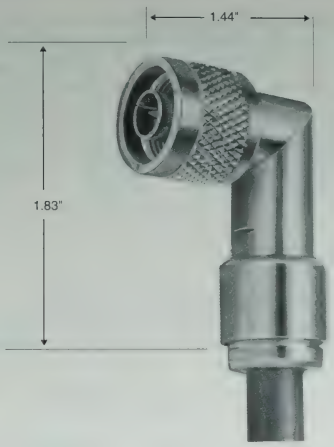
PLR95-⚠

The **PLR95** is a right angle version of **Trompeter's PL95 50Ω, N type, Wrench Crimp, cable plug.**

The new **PLR95** incorporates all of the features of **Trompeter's 95 Series** of standard coax, threaded, (N type) connectors to provide a strong, reliable termination.

Application notes:

The **PLR95** was designed for **airborne applications** where a durable termination is required because of the continuous vibration (avionics bay/antenna). The **PLR95** incorporates **Trompeter's Wrench Crimp** design for a strong, reliable termination. The **PLR95's** simple **three-piece construction** makes it **easier to assemble** than other "clamp-type" connectors, which have up to five pieces. The **PLR95** is a **practical** connector for **installation/replacement** when **limited space** makes cable crimping difficult. The **PLR95** is ideal for any **high-frequency** application (ground support/ground base) that requires **RG393 type** cable and a **rugged right angle connector.**



Cable Type	⚠ Number
RG393	105-1374-1
Safety wire version	105-1374-S1
Pic Wire & Cable S33141	105-1374-2
Safety wire version	105-1374-S2

For other cables or 75Ω versions, contact the Factory

Cable Plug, Miniature Coax, Threaded (TNC), Right Angle
Wrench Crimp

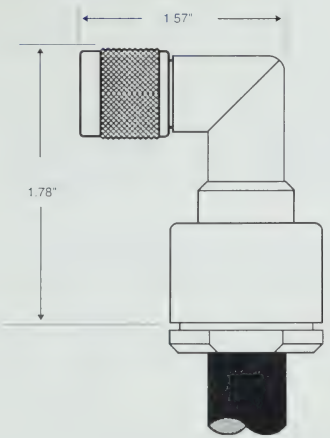
PLR40-⚠

The **PLR40** is a **right angle version** of **Trompeter's PL40,** 50Ω miniature coax, threaded (TNC), Wrench Crimp cable plug.

The new **PLR40** incorporates all of the features of **Trompeter's 40 Series** of 50Ω miniature coax, threaded (TNC) connectors to provide a strong, reliable termination.

Application notes:

The **PLR40** was designed for **airborne applications** where a durable termination is required because of the continuous vibration (avionics bay/antenna). The **PLR40** incorporates **Trompeter's Wrench Crimp** design for a strong, reliable termination. Its simple **three-piece construction** makes it **easier to assemble** than other "clamp-type" connectors, which have up to five pieces. The **PLR40** is a **practical** connector for **installation/replacement** when **limited space** makes cable crimping difficult. The **PLR40** is ideal for any **high-frequency** application (ground support/ground base) that requires **Times AA-5885** cable and a **rugged right angle connector.**



Cable Type	⚠ Number
Times AA-5885	105-1380

For other cables or 75Ω versions, contact the Factory

Twinax/Triax Connectors

Introduction

Twinax/triax connectors are used when signals require protection from extraneous noise through non-signal-carrying shielding. These interfacing connectors must provide contact surfaces isolated from each other & isolated from the outer shield. **Trompeter twinax/triax** connectors have **two (2) concentric contacts** that are **isolated from each other** & the **shielding connection.**

Standard Features:

See **Standard Features & Benefits**- page 34

- **All metallic parts** are **machined/formed** to extremely close tolerances.
- All bodies are made of **top quality brass** with a **bright nickel-plated, non-tarnish** finish, standard.
- **Fully enclosed, heat-treated, beryllium-copper** outer conductor spring (not half-hard slotted brass). **Patented feature!**
- **Heat-treated, beryllium-copper** center socket contact with **50 millionths inch gold plating.**
- All **dielectrics** are made of machined **Teflon™.**

70 Series Miniature 2,3 & 4-lug, & Push-on (TRB)
370 Series Miniature Threaded (TRT)

QPL'd to MIL-C-49142! See page 59
Matching patch products Pages 30-33
Hermetically Sealed versions See page 59

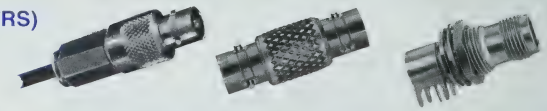
These concentric twinax/triax connectors are ideal for applications where weight is not of primary concern. They are commonly used in digital data bus, video pair, **MIL-STD 1553B** (airborne/ground, primary/redundant), base-band circuit and any application for "noise-free guarded" circuits.

70/370 Series Features:

- **Same size as BNC/ TNC connectors.**
- Field serviceable, **Wrench Crimp versions** for cables with up to **.475"** inch diameters.
- **Tool Crimp versions** for quick termination of cables with up to **.250"** inch diameters.
- **3-lug, 4-lug** and **threaded** versions provide different levels of mechanical stability & keying.
- Does not require mechanical alignment for mating.
- **QPL'd to MIL-C-49142!** ..... Page 59
- Meets **MIL-C-49142,** 48-hour salt spray requirement.
- Special platings available to satisfy **MIL-STD-1344,** 500-hour salt-spray requirement .
- Fits **MIL-C17/176-00002** and other twinax/triax cables.
- Push-on versions for test cable applications.
- Fewer pieces to assemble.
- **Hermetically sealed versions** available ..... Page 59

150 Series Miniature 2,3 & 4-lug & Push-on (TRS)
3150 Series Miniature Threaded (TTM)

Matching patch products-pages 28



150/ 3150 Series are concentric twinax/triax connectors for high density and weight reduction applications. They are commonly used in digital data bus, video pair, **MIL-STD-1553B** (primary/redundant), base-band circuit and in any application for "noise-free guarded" circuits.

150/3150 Series Features:

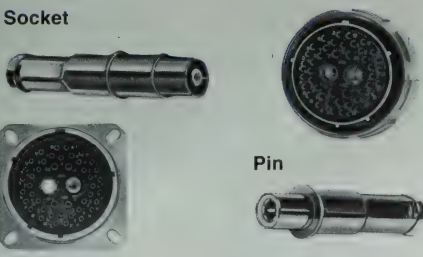
- **Same size as TPS/TCM connectors.**
- Solderable **Wrench Crimp versions** for cables with up to **.215"** inch diameters.
- **Tool Crimp versions** for quick termination of cables with up to **.250"** inch diameters.
- **3-lug, 4-lug** and **threaded** versions provide different levels of mechanical stability & keying.
- Does not require mechanical alignment for mating.
- Meets **MIL-C-49142,** 48-hour salt spray requirement.
- Special platings available to satisfy **MIL-STD 1344,** 500-hour salt-spray requirement.
- Fits **MIL-C17/176-00002** and other twinax/triax cables
- Push-on versions for test cable applications.
- Fewer pieces to assemble.
- **Hermetically sealed versions** available ..... Page 59.

Twinax/Triax Connectors
Introduction

Mating Twinax Size 8 Contacts
for Digital Data Bus Multi-pin Connectors

	MIL QPL Part#	Commercial Part#
Socket	M39029/91-530	SPC 8S-201
Pin	M39029/90-529	SPC 8P-201

Socket



Pin

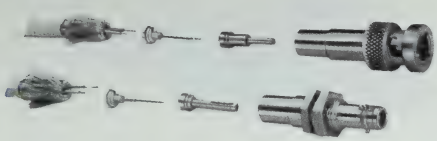
This pair of **scoop-proof** concentric contacts fit the **Size 8 cavity** of **MIL-C-38999 series 1, 3 & 4;** & **MIL-STD-1760 "External Stores"** type of connectors.

Connector Features:

- Fits **MIL-C17/176-00002** & other twinax/triax cables.
- Heat-treated **beryllium copper** spring members.
- **Gold plated , Full Crimp** contacts.

ZIP-SHIP

450 Series Subminiature Twinax 3-lug & 4-lug
3450 Series Subminiature Twinax Threaded



Concentric connectors designed for **MIL-STD-1553B** airborne digital databus weight reduction applications.

450/3450 Series Features:

- 3-lug, 4-lug & threaded versions.
- Field installable **Full Crimp** design. No soldering required.
- Fully inspectable assembly process (no blind or questionable solder connections).
- Total of ten (10) polarized & keyed combinations.
- **Three different keyings** for 3-lug versions.
- **Two interchangeable** pin & socket arrangements.
- Fewer pieces to assemble.
- Meets **MIL-C-49142,** 48-hour salt spray requirement.
- Special platings available to satisfy **MIL-STD-1344**, 500-hour salt-spray requirement .
- Weatherproof designs utilize sealing gaskets & heat shrink tubing.
- Fits **MIL-C17/176-00002** & other twinax/triax cables.
- Compatible with **Raychem** designs but utilizing military crimp tools (intermateable replacement).

80 Series Standard 2-lug & 3-lug (TRC)
380 Series Standard Threaded (TRN)

Used in digital data bus, video pair, **MIL-STD-1553B** (primary/redundant data bus), **MIL-STD-1397** (ship-board data bus), baseband circuit & in any application for "noise-free, guarded" circuits.

80/380 Series Features:

- **Standard "C" sized** concentric connectors.
- Used with **larger twinax/triax cables** with **outer diameters** of **.250"-.615".**
- Does not require mechanical alignment for mating.
- Requires no special tools while meeting **MIL-C-49142 /1 and /2** requirements.

30 Series Miniature 2-Pin Polarized, 2-lug (TWBNC)
330 Series Miniature 2-Pin Polarized, Threaded (TWTNC)

Used in digital data bus, video pair, **MIL-STD 1553B** (airborne/ground primary/ redundant), baseband circuit & in any application for "noise-free guarded" circuits. They are not recommended for new design. **MIL-STD-1553B** permits designer discretion for use of concentric designs in lieu of the two-pin connector.

30/330 Series Features:

- Same size as BNC/TNC connectors.
- Fully enclosed beryllium copper spring fingers .
- Stepped Dielectric.

See Military Applications-page 4

See New Products-page 59

Twinax/Triax Connectors

Standard Twinax/Triax Threaded 80/380 Series, TRC/TRN

Cable Plug

2-lug PL80-⚠1
3-lug PL803-⚠1
Threaded PL380-⚠1

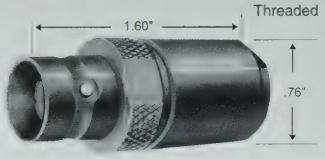
1.00" for Cable Groups 14-16, 61-62

ZIP-SHIP

Cable Jack

Wrench Crimp

2-lug CJ80-⚠1
3-lug CJ803-⚠1
Threaded CJ380-⚠1

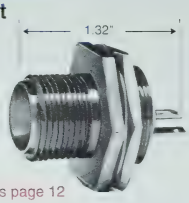


1.00" for Cable Groups 14-16, 61-62

Bulkhead Jack

Solder pot

2-lug BJ80
3-lug BJ803
Threaded BJ380

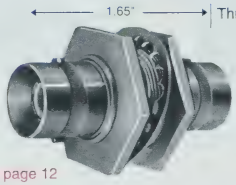


D1.133
Mounting holes page 12

ZIP-SHIP

Insulated Feed-through Jack

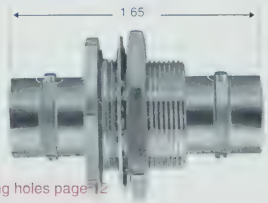
2-lug BJ83
3-lug BJ833
Threaded BJ383



D1.343
Mounting holes page 12

Feed-through Jack

2-lug BJ88
3-lug BJ883
Threaded BJ388



D1.343
Mounting holes page 12

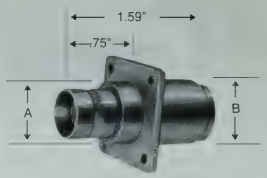
Bulkhead Cable Jacks

Wrench Crimp,Flange Mount

2-lug BJ89F-⚠1
3-lug BJ893F-⚠1
Threaded BJ389F-⚠1

Wrench Crimp, D Hole Mount

2-lug BJ89-⚠1
3-lug BJ893-⚠1
Threaded BJ389-⚠1



Square hole pattern

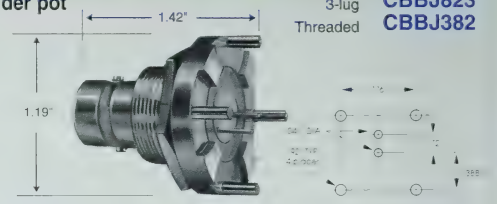
Mounting holes page 12
DD6.250-Cable Grp 7-14 (A=.68", B=.84")
D11.259-Cable Grp 14A-16 (A=.94", B=.92")

ZIP-SHIP

Circuit Board Bulkhead Jack

Solder pot

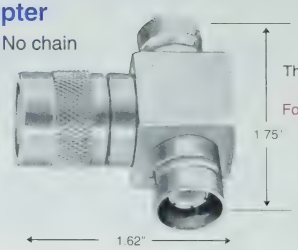
2-lug CBBJ82
3-lug CBBJ823
Threaded CBBJ382



Adapter

Tee, No chain

2-lug BN83-1
3-lug BN833-1
Threaded BN383-1



For other chain options see page 44

Terminations & RFI Caps
page 58

Custom Cable Assemblies
page 66-68

Finding/ordering cable connectors pg 70, ⚠-Cable Group# pg 71-75 /Cable Compatibility pg 77, **Tools** pg 78-79

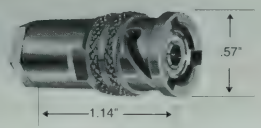
Twinax/Triax Connectors

Miniature Plugs & Jacks 70/370 Series, TRB/TRT

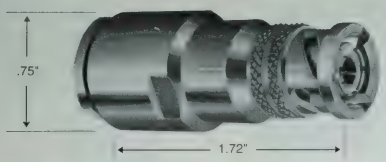
Cable Plug
Wrench Crimp

2-lug	PL74-⚠
3-lug	PL75-⚠
4-lug	PL75FL-⚠
Threaded	PL375-⚠

Standard Body



Large Body



Large Body-Cables with jacket dia. > .323"

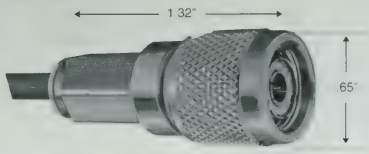
ZIP-SHIP

Cable Plug
Tool Crimp

2-lug	PL74C-⚠
3-lug	PL75C-⚠
4-lug	PL75CFL-⚠
Threaded	PL375C-⚠

Standard Body

Large Body

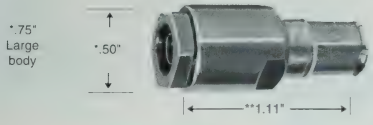


Large Body-Cables with jacket dia. > .323"

ZIP-SHIP

Cable Plug
Wrench Crimp, Push-on — PL73-⚠

Large body shown



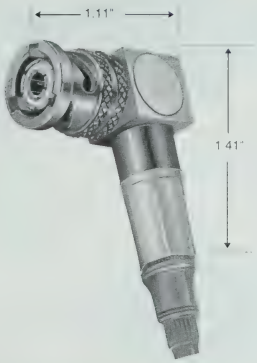
Large body-Cables with jacket dia. > .323"

Cable Plug
Tool Crimp, Push-on — PL73C-⚠

Standard body shown

Right Angle Cable Plug
Tool Crimp

2-lug	PLR74C-⚠
3-lug	PLR75C-⚠
4-lug	PLR75CFL-⚠
Threaded	PLR375C-⚠

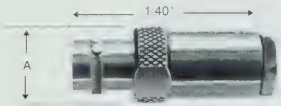


Cable Groups 201-223 only. For other cables contact Factory

Cable Jack
Wrench Crimp

Standard body	A=.57"
Large body	A=.75"

3-lug	CJ70-⚠
2-lug	CJ70TL-⚠
4-lug	CJ70FL-⚠
Threaded	CJ370-⚠

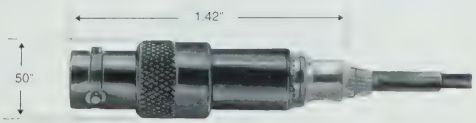


ZIP-SHIP

Cable Jack
Tool Crimp

Standard body	A=.57"
Large body	A=.75"

3-lug	CJ70C-⚠
2-lug	CJ70CTL-⚠
4-lug	CJ70CFL-⚠
Threaded	CJ370C-⚠



Finding/ordering cable connectors pg 70, ⚠-Cable Group# pg 71-75/Cable Compatibility pg 77, **Tools** pg 78-79

Twinax/Triax Connectors

Miniature Bulkhead Jacks 70/370 Series, TRB/TRT

Bulkhead Cable Jack
Wrench Crimp

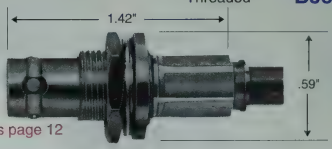
3-lug	BJ79-⚠1
2-lug	BJ79TL-⚠1
4-lug	BJ79FL-⚠1
Threaded	BJ379-⚠1

ZIP-SHIP

D3.160
Mounting holes page 12

Bulkhead Cable Jack
Tool Crimp

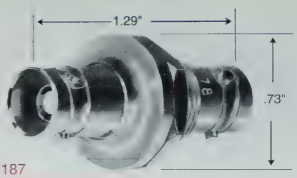
3-lug	BJ79C-⚠1
2-lug	BJ79CTL-⚠1
4-lug	BJ79CFL-⚠1
Threaded	BJ379C-⚠1



D3.109
Mounting holes page 12

Feed-through Bulkhead Jack

3-lug	BJ78
2-lug	BJ78TL
4-lug	BJ78FL
Threaded	BJ378

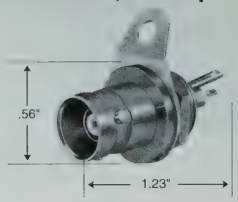


D3.187
Mounting holes page 12

ZIP-SHIP

Bulkhead Jack
Front mount, Solder pot

3-lug	BJ77
2-lug	BJ77TL
4-lug	BJ77FL
Threaded	BJ377

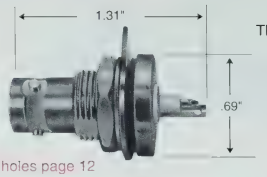


ZIP-SHIP

D4.125
Mounting holes page 12

Bulkhead Jack
Rear mount, Solder pot

3-lug	BJ76
2-lug	BJ76TL
4-lug	BJ76FL
Threaded	BJ376

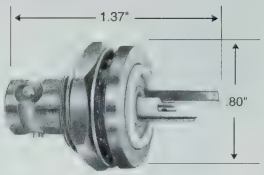


D3.218
Mounting holes page 12

ZIP-SHIP

Insulated Bulkhead Jack
Rear mount, Solder pot

3-lug	BJ75
2-lug	BJ75TL
4-lug	BJ75FL
Threaded	BJ375

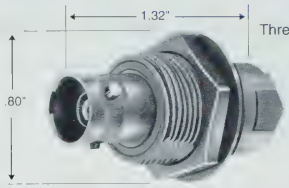


ZIP-SHIP

D2.140
Mounting holes page 12

Insulated Bulkhead Cable Jack
Wrench Crimp

3-lug	BJ74-⚠1
2-lug	BJ74TL-⚠1
4-lug	BJ74FL-⚠1
Threaded	BJ374-⚠1

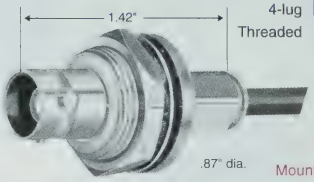


ZIP-SHIP

D2.140
Mounting holes page 12

Insulated Bulkhead Cable Jack
Tool Crimp

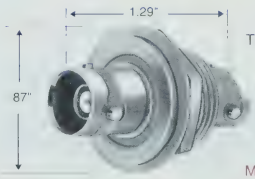
3-lug	BJ74C-⚠1
2-lug	BJ74CTL-⚠1
4-lug	BJ74CFL-⚠1
Threaded	BJ374C-⚠1



D2.140
Mounting holes page 12

Insulated Feed-through Jack

3-lug	BJ73
2-lug	BJ73TL
4-lug	BJ73FL
Threaded	BJ373

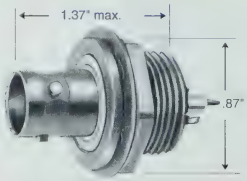


ZIP-SHIP

D2.140
Mounting holes page 12

Insulated Bulkhead Jack
Front mount

3-lug	BJ72
2-lug	BJ72TL
4-lug	BJ72FL
Threaded	BJ372



ZIP-SHIP

D2.140
Mounting holes page 12

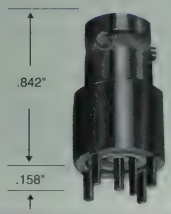
Finding/ordering cable connectors pg 70. ⚠-Cable Group# pg 71-75/Cable Compatibility pg 77, **Tools** pg 78-79

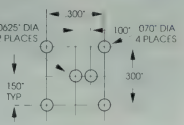
Twinax/Triax Connectors

Miniature Circuit Board Jacks 70/370 Series & Paralleling

Circuit Board Jack

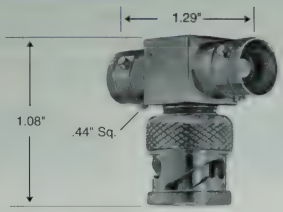
3-lug	CBJ70
2-lug	CBJ70TL
4-lug	CBJ70FL
Threaded	CBJ370





Tee Adapter

3-lug	BN73
2-lug	BN73TL
4-lug	BN73FL
Threaded	BN373

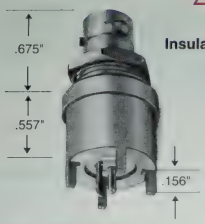


ZIP-SHIP

Circuit Board Bulkhead Jack

ZIP-SHIP

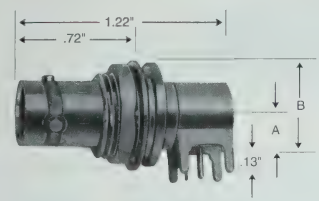
3-lug	CBBJ79
2-lug	CBBJ79TL
4-lug	CBBJ79FL
Threaded	CBBJ379
Insulated version ..3-lug	CBBJ74
2-lug	CBBJ74TL
4-lug	CBBJ74FL
Threaded	CBBJ374

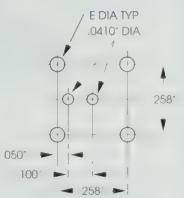


D3.109. (D2.109 Insulated)
Mounting holes page 12

Right Angle Circuit Board Bulkhead Jack

Standard Version	3-lug	CBBJR79
A=.240", B=.565", E=.063"	2-lug	CBBJR79TL
	4-lug	CBBJR79FL
ZIP-SHIP	Threaded	CBBJR379
Tall Version	3-lug	CBBJR79A
A=.340", B=.665", E=.070"	2-lug	CBBJR79TLA
	4-lug	CBBJR79FLA
D3.125	Threaded	CBBJR379A





Insulated Version	3-lug	CBBJR74
A=.345", B=.778", E=.0625"	2-lug	CBBJR74TL
	4-lug	CBBJR74FL
	Threaded	CBBJR374
Insulated Tall Version	3-lug	CBBJR74A
A=.445", B=.878", E=.070"	2-lug	CBBJR74TLA
	4-lug	CBBJR74FLA
D2.140- Mounting holes page 12	Threaded	CBBJR374A

Fixed ParallelingJack

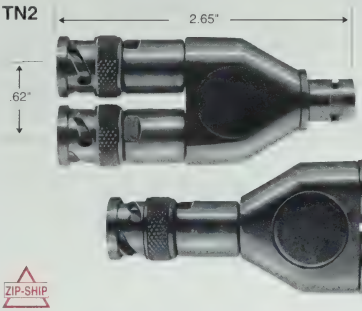
Two plugs, one jack

3-lug	TN2
2-lug	TN2TL
4-lug	TN2FL
Threaded	TN2T

Two jacks, one plug

3-lug	TN2A
2-lug	TN2TLA
4-lug	TN2FLA
Threaded	TN2TA

TN2



ZIP-SHIP

TN2A

Random Paralleling

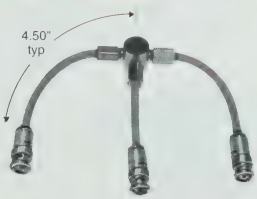
Three plugs, no jacks

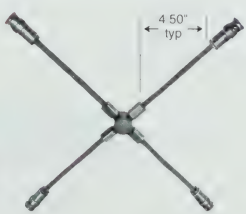
3-lug	TN3-Z
2-lug	TN3TL-Z
4-lug	TN3FL-Z
Threaded	TN3T-Z

Four plugs, no jack

3-lug	TN4-Z
2-lug	TN4TL-Z
4-lug	TN4FL-Z
Threaded	TN4T-Z

To add a cable jack to the center module, add the letter "**A**" before "**-Z** ".
Example: TN3A-Z



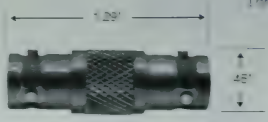


R-Resistance (1/2 W 1%), **Z-Impedance** Triax-50Ω/75Ω Twinax 78Ω/124Ω, ⚠-Cable Group# pg 71-75/Cable Compatibility pg 77

TRB/TRT Coupling Adapter

(Barrel connector)

3-lug	AD78
2-lug	AD78TL
4-lug	AD78FL
Threaded	AD378

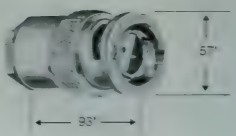


ZIP-SHIP

Cable Plug

Wrench Crimp

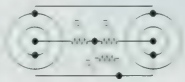
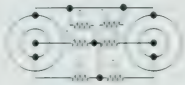
2-lug	PL30-[1]
Threaded	PL330-[1]



ZIP-SHIP

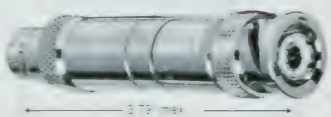
TRB Series Pad

TRB 3-lug plug and jack

Circuit Schematic	Part Number
	TNG2-R
	TNG2A-R_1-R_2
	TNG3-R
	TNG3A-R_1-R_2
	TNG4-R_1-R_2-R_3
	TNG4A-R_1-R_2-R_3-R_4-R_5-R_6

R-Resistance 1/2 W ±1%

Substitute resistance value for each "R_" unless other values are specified.



ZIP-SHIP

Bulkhead Jack

Front mount, Solder pot

2-lug	BJ30
Threaded	BJ330

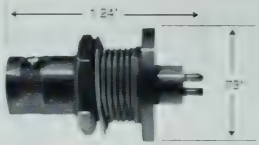
DE 125-Mounting holes page 12

ZIP-SHIP

Bulkhead Jack

Rear mount, Solder pot

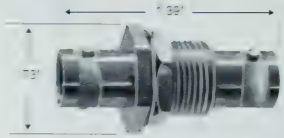
2-lug	BJ31
Threaded	BJ331



DE 243-Mounting holes page 12

Feed-through Jack

2-lug	BJ38
Threaded	BJ338



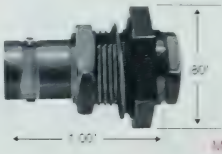
DE 171-Mounting holes page 12

ZIP-SHIP

Bulkhead Cable Jack

Rear mount, Wrench Crimp

2-lug	BJ39-[1]
Threaded	BJ339-[1]



DE 218-Mounting holes page 12

New Product!

TWBNC Right Angle Circuit Board Jack

See page 59

Custom Adapters

See pages 60-61

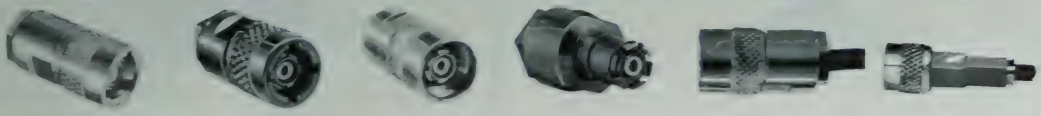
Finding/ordering cable connectors pg 70 [1]-Cable Groups pg 71-75/Cable Compatibility pg 77 Tools pg 78-79

Twinax/Triax Connectors

Subminiature Jacks & Plugs 150/3150 Series TRS/TTM

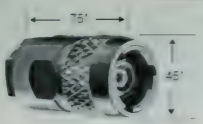
Subminiature concentric twinax triax connectors **increase packing density up to 246%**. Designed for high density applications where digital, video pair or baseband "noise free guarded" circuits are required. The 3-lug, 4-lug and threaded versions improve mechanical stability and provide "error-free" redundant data bus capability. Wrench Crimp versions accommodate cables with outer jacket diameters up to .215". Tool Crimp versions up to .250".

TRS 3-Lug | TRS 4-lug | TTM Threaded | TRS/TTM Push-on | Wrench Crimp | Tool Crimp



Cable Plug
Wrench Crimp

3-lug	PL155-
4-lug	PL155FL-
Threaded	PL3155-

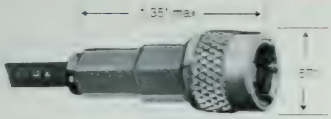


Cable Jack
Wrench Crimp

3-lug	CJ150-
4-lug	CJ150FL-
Threaded	CJ3150-

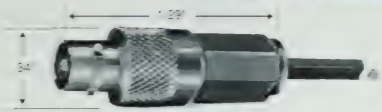
Cable Plug
Tool Crimp

3-lug	PL155AC-
4-lug	PL155ACFL-
Threaded	PL3155AC-



Cable Jack
Tool Crimp

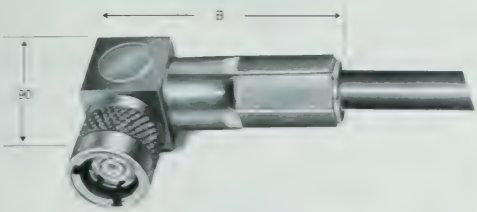
3-lug	CJ150AC-
4-lug	CJ150ACFL-
Threaded	CJ3150AC-



Right Angle Cable Plug
Tool Crimp

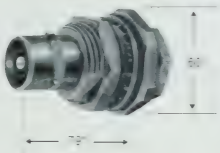
3-lug	PLR155AC-
4-lug	PLR155ACFL-
Threaded	PLR3155AC-

Cable Groups 211-216 B=1.32"
All others B=1.77"



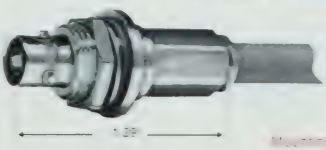
Bulkhead Jack
Rear mount, Wrench Crimp

3-lug	BJ159-
4-lug	BJ159FL-
Threaded	BJ3159-



Bulkhead Jack
Rear mount, Tool Crimp

3-lug	BJ159AC-
4-lug	BJ159ACFL-
Threaded	BJ3159AC-



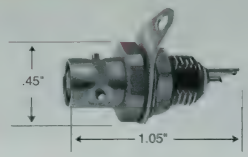
Finding/ordering cable connectors pg 70 -Cable Groups pg 71-75 Cable Compatibility pg 77 Tools pg 78-79

Twinax/Triax Connectors

Subminiature Bulkhead Jacks 150/3150 Series TRS/TTM

Bulkhead Jack
Front mount, Solder pot
Hermetically sealed-page 59

3-lug	BJ157
4-lug	BJ157FL
Threaded	BJ3157

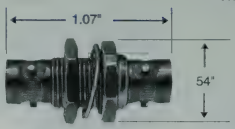


ZIP-SHIP

D6.187
Mounting holes page 12

Feed-through Jack

3-lug	BJ158
4-lug	BJ158FL
Threaded	BJ3158



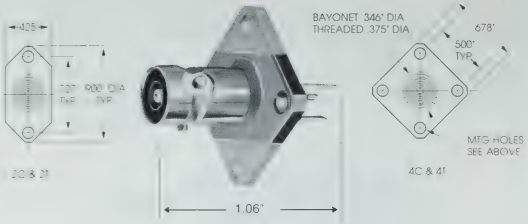
D5.171
D4.171 (Threaded)-Mounting holes page 12

Bulkhead Jacks
Flange mount, Solder pot

3-lug	BJ157F-△2
4-lug	BJ157FFL-△2
Threaded	BJ3157F-△2

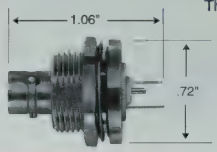
Hole Configuration:

# of holes/ Type-Dimension △2	
2/Clear- .103" diameter	2C
2/Threaded-.099-56UNF-2B	2T
4/Clear- .103" diameter	4C
4/Threaded-.099-56UNF-2B	4T



Insulated Bulkhead Jack
Rear mount, Solder pot

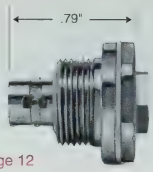
3-lug	BJ155
4-lug	BJ155FL
Threaded	BJ3155



D9.148-Mounting holes page 12

Insulated Bulkhead Jack
Rear mount, Wrench Crimp

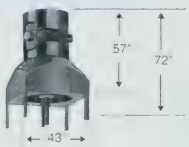
3-lug	BJ154-△1
4-lug	BJ154FL-△1
Threaded	BJ3154-△1



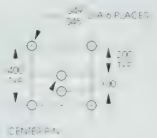
D9.116
Mounting holes page 12

Circuit Board Jack

3-lug	CBJ157
4-lug	CBJ157FL
Threaded	CBJ3157

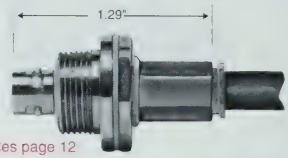


ZIP-SHIP



Insulated Bulkhead Jack
Rear mount, Tool Crimp

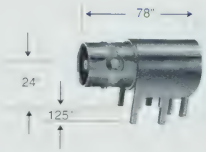
3-lug	BJ154AC-△1
4-lug	BJ154ACFL-△1
Threaded	BJ3154AC-△1



D9.116
Mounting holes page 12

Right Angle Circuit Board Jack

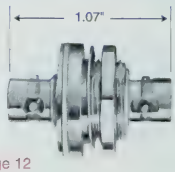
3-lug	CBJR157
4-lug	CBJR157FL
Threaded	CBJR3157



ZIP-SHIP

Insulated Feed-through Jack

3-lug	BJ153
4-lug	BJ153FL
Threaded	BJ3153



D9.116
Mounting holes page 12

Finding/ordering cable connectors pg 70. △1-Cable Group# pg 71-75/Cable Compatibility pg 77. Tools pg 78-79

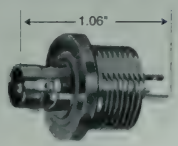
*Note: Circuit board connector dimensions & mounting patterns are for general reference only. Request top drawings for precise dimensions.

Twinax/Triax Connectors

Subminiature Bulkhead Jacks, Adapters & Push-on 150/3150 Series

Insulated Bulkhead Jack
Front mount, Solder pot

3-lug BJ152
4-lug BJ152FL
Threaded BJ3152



D9.208-Mounting holes page 12

ZIP-SHIP

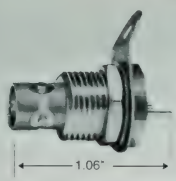
TRS/TTM Push-on connectors

Designed for blind mate rack and panel applications. The male plugs mate with any TRS/TTM jack and are ideally suited for test cable applications.

See page 41 for diagram of typical application.

Bulkhead Jack
Rear mount, Solder pot

3-lug BJ150
4-lug BJ150FL
Threaded BJ3150

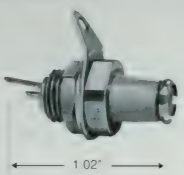


ZIP-SHIP

D4.218
Mounting holes page 12

Bulkhead Push-on Plug
Front mount, Solder pot

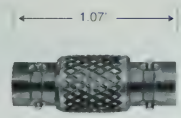
PL151



C1.088
Mounting holes page 12

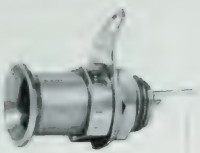
TRS/TTM Coupling Adapter
(Barrel connector)

3-lug AD158
4-lug AD158FL
Threaded AD3158



Bulkhead Push-on Jack
Front mount, Solder pot

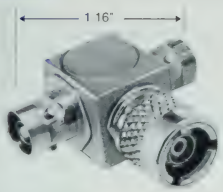
BJ151



C1.048
Mounting holes page 12

Tee Adapter

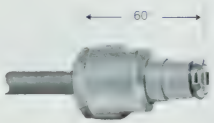
3-lug BN153
4-lug BN153FL
Threaded BN3153



ZIP-SHIP

Push-on Cable Plug
Wrench Crimp

PL153-⚠



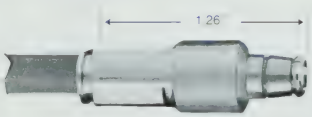
Terminations & RFI Caps
Page 58

Custom Cable Assemblies
Page 66-68

Custom Loaded Panels
Page 8

Push-on Cable Plug
Tool Crimp

PL153AC-⚠



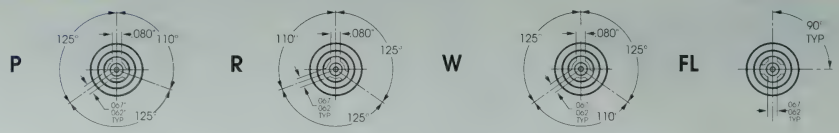
Finding/ordering cable connectors pg 70. ⚠-Cable Group# pg 71-75 Cable Compatibility pg 77. **Tools** pg 78-79

Twinax/Triax Connectors

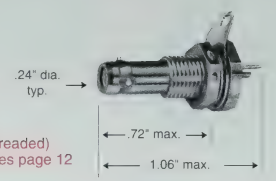
Concentric Twinax 450 Series

The **450 Series** of twinaxial concentric connectors were designed for **airborne digital data bus** applications that fit the **MIL-STD-1553B** data bus cable **MIL-C17/176-00002**. Connectors are available in **five different coupling configurations** which include **3-lug** versions with **three (3) separate keyings,** a **4-lug** & a **threaded** version.

3-lug & 4-lug keyings — Diagrams shown are for plugs



Bulkhead Jack
Rear mount, Solder pot



DD8.130
DD8.125 (Threaded)
Mounting holes page 12

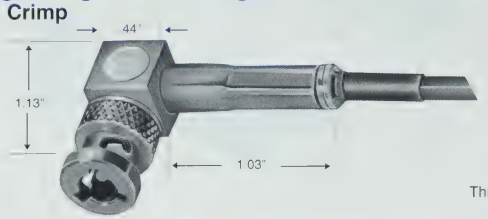
Coupling Type	Key Code	Intermediate Contact Pin	Socket
3-lug	P	BJ450PP	BJ450PS
3-lug	R	BJ450RP	BJ450RS
3-lug	W	BJ450WP	BJ450WS
4-lug	FL	BJ450FLP	BJ450FLS
Threaded	-	BJ3450P	BJ3450S

Bulkhead Jack
Front mount, Solder pot

DD8.130, DD8.125 (Threaded)-Mounting holes page 12

Coupling Type	Key Code	Intermediate Contact Pin	Socket
3-lug	P	BJ457PP	BJ457PS
3-lug	R	BJ457RP	BJ457RS
3-lug	W	BJ457WP	BJ457WS
4-lug	FL	BJ457FLP	BJ457FLS
Threaded	-	BJ3457P	BJ3457S

Right Angle Cable Plug
All Crimp



Coupling Type	Key Code	Intermediate Contact Pin	Socket
3-lug	P	PLR455ACPP-⚠1	PLR455ACPS-⚠1
3-lug	R	PLR455ACRP-⚠1	PLR455ACRS-⚠1
3-lug	W	PLR455ACWP-⚠1	PLR455ACWS-⚠1
4-lug	FL	PLR455ACFLP-⚠1	PLR455ACFLS-⚠1
Threaded	-	PLR3455ACP-⚠1	PLR3455ACS-⚠1

RFI Jack Caps & Termination Bulkhead Jacks
Rear mount

⚠3-Chain options page 44

Coupling Type	Key Code	RFI Caps	Terminations Intermediate Contact Pin	Socket
3-lug	P	RFI457P-⚠3	TBJ451PP-⚠3-R	TBJ451PS-⚠3-R
3-lug	R	RFI457R-⚠3	TBJ451RP-⚠3-R	TBJ451RS-⚠3-R
3-lug	W	RFI457W-⚠3	TBJ451WP-⚠3-R	TBJ451WS-⚠3-R
DD8.156 4-lug	FL	RFI457FL-⚠3	TBJ451FLP-⚠3-R	TBJ451FLS-⚠3-R
DD8.125 (Threaded)-Mounting holes page 12 Threaded	-	RFI3457-⚠3	TBJ3451P-⚠3-R	TBJ3451S-⚠3-R

Finding/ordering cable connectors pg 70. ⚠-Cable Group# pg 71-75/Cable Compatibility pg 77. **Tools** pg 78-79

Twinax/Triax Connectors

Concentric Twinax 450 Series

The 450 Series includes cable jacks & plugs with interchangeable contact assemblies.
Contact & body assemblies may be ordered separately.
See facing page.

Cable connectors accept cables with a **maximum O.D. of .180"** and **conductors to .025".**

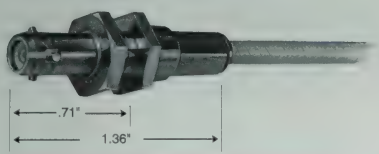
Contact Assemblies

Pin/Socket — PS450AC-⚠1

Socket/Pin — SP450AC-⚠1

ZIP-SHIP

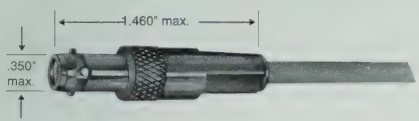
Bulkhead Cable Jack
Rear mount, All Crimp



DD8.156, DD8.125 (Threaded)-Mounting holes page 12

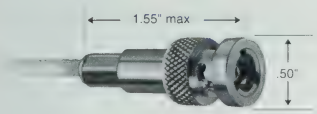
Coupling Type	Key Code	Body Assembly	Intermediate Contact Pin	Intermediate Contact Socket
3-lug	P	BJ459ACP-⚠1	BJ459ACPP-⚠1	BJ459ACPS-⚠1
3-lug	R	BJ459ACR-⚠1	BJ459ACRP-⚠1	BJ459ACRS-⚠1
3-lug	W	BJ459ACW-⚠1	BJ459ACWP-⚠1	BJ459ACWS-⚠1
4-lug	FL	BJ459ACFL-⚠1	BJ459ACFLP-⚠1	BJ459ACFLS-⚠1
Threaded	-	BJ3459AC-⚠1	BJ3459ACP-⚠1	BJ3459ACS-⚠1

Cable Jack
All Crimp



Coupling Type	Key Code	Body Assembly	Intermediate Contact Pin	Intermediate Contact Socket
3-lug	P	CJ450ACP-⚠1	CJ450ACPP-⚠1	CJ450ACPS-⚠1
3-lug	R	CJ450ACR-⚠1	CJ450ACRP-⚠1	CJ450ACRS-⚠1
3-lug	W	CJ450ACW-⚠1	CJ450ACWP-⚠1	CJ450ACWS-⚠1
4-lug	FL	CJ450ACFL-⚠1	CJ450ACFLP-⚠1	CJ450ACFLS-⚠1
Threaded	-	CJ3450AC-⚠1	CJ3450ACP-⚠1	CJ3450ACS-⚠1

Cable Plug
All Crimp



Coupling Type	Key Code	Body Assembly	Intermediate Contact Pin	Intermediate Contact Socket
3-lug	P	PL455ACP-⚠1	PL455ACPP-⚠1	PL455ACPS-⚠1
3-lug	R	PL455ACR-⚠1	PL455ACRP-⚠1	PL455ACRS-⚠1
3-lug	W	PL455ACW-⚠1	PL455ACWP-⚠1	PL455ACWS-⚠1
4-lug	FL	PL455ACFL-⚠1	PL455ACFLP-⚠1	PL455ACFLS-⚠1
Threaded	-	PL3459AC-⚠1	PL3455ACP-⚠1	PL3455ACS-⚠1

RFI Plug Caps & In-lineTermination Plugs

Terminations ⚠3-Chain options page 44

Coupling Type	Key Code	RFI Caps	Intermediate Contact Pin	Intermediate Contact Socket
3-lug	P	RFI455P-⚠3	TNG451PP-⚠3-R	TNG451PS-⚠3-R
3-lug	R	RFI455R-⚠3	TNG451RP-⚠3-R	TNG451RS-⚠3-R
3-lug	W	RFI455W-⚠3	TNG451WP-⚠3-R	TNG451WS-⚠3-R
4-lug	FL	RFI455FL-⚠3	TNG451FLP⚠3-R	TNG451FLS-⚠3-R
Threaded	-	RFI3455-⚠3	TNG3451P-⚠3-R	TNG3451S-⚠3-R

Finding/ordering cable connectors pg 70, ⚠1-Cable Group# pg 71-75/Cable Compatibility pg 77, **Tools** pg 78-79

Twinax/Triax Connectors

Quadrax 100 Series & Twinax/Triax Terminations & RFI Caps

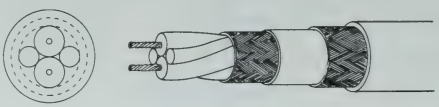
Quadrax Connectors

Quadrax connectors/cable were designed for ultimate protection in **protected & guarded circuit** applications.

See "**Quadrax Guarded Circuit**"-page 85.

Trompeter's 100 Series 2-lug concentric quadrax connectors do not require mechanical alignment for mating and fits **Trompeter's QRC-78-2** quadrax cable.

Quadrax cable is a signal cable that has a twisted pair of signal wires with two separate and insulated braids.



Twinax/Triax Terminations & RFI Caps

Trompeter provides **Termination** & **RFI cap** versions of many of our twinax/triax connectors.

Resistors are normally 1/8 watt for subminiature connectors & 1/2 watt for miniature & standard size connectors (1% tolerances for all).

Ordering Instructions:

For Terminations: Example-**PL75 termination** for **TRB jacks** with **78Ω** resistance and **no chain.**

Order part number **TNG1 - 1 - 78**

Part number from below

③-Chain# page 44

R-Resistance

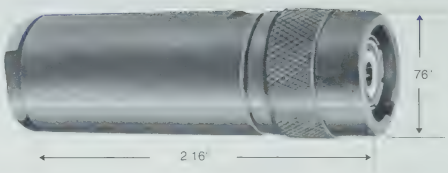
For RFI Caps: Example-**Patch plug cap** for a **J74** twinax/triax jack with **no chain.**

Order part number **RFI70 - 1**

Part number from below

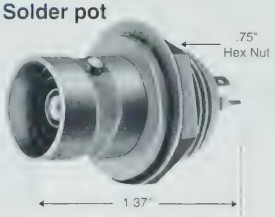
③-Chain# page 44

Cable Plug — PL101-△



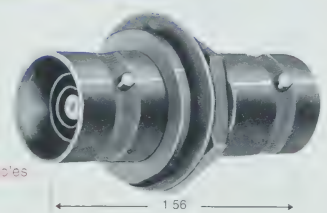
Bulkhead Jack — BJ101

Rear mount, Solder pot



D2.187 Mounting holes page 12

Feed-through Jack — BJ102



D2.187 Mounting holes page 12

Termination Description (ZIP-SHIP)	Page	Mating Part	Part #
PL75 Plug	49	TRB Jacks	TNG1- ③-R
BJ79 jack	50	TRB plugs	TNGBJ1- ③-R
BJ30 jack	52	PL30 plugs	TNGBJT1- ③-R
PL80 plug	48	TRC jacks	TNGL1- ③-R
PL155 plug	53	TRS jacks	TNGM1- ③-R
PL30 plug	52	2-pin jacks	TNGT1- ③-R
PL375 plug	49	TRT jacks	TNT1- ③-R
CJ370 jack	49	TRT plugs	TNF1- ③-R
PL3155 plug	53	TTM jacks	TNTM1- ③-R
J150 jack	28	TRS plugs	TJTWM- ③-R
PL71 plug	30	J72 jacks	TPT- ③-R
PL150 plug	28	J150 jacks	TPTWM- ③-R

RFI Cap Description (ZIP-SHIP)	Page	Mating Part	Part Number
Standard Patch plug	30	J72 jack	RFI 70- ③
PL75 plug	49	BJ77	RFI 75- ③
BJ77 jack	50	PL75	RFI 77- ③
PL80 plug	48	BJ80	RFI85- ③
Subminiature patch plug	28	J150	RFI150- ③
TRS plug	53	BJ150	RFI155- ③
PL75 threaded plug	53	BJ377	RFI375- ③
BJ77 threaded jack	50	PL375	RFI377- ③
TRS threaded plug	53	BJ3150	RFI3155- ③

For 2-lug & 4-lug versions call Factory.

Finding/ordering cable connectors pg 70. △-Cable Group# pg 71-75/Cable Compatibility pg 77. **Tools** pg 78-79

Twinax/Triax Connectors

New Product!

Trompeter's 70 Series Connectors-QPL'd to MIL-C-49142!

Trompeter's 70 Series Connectors

QPL'd to MIL-C-49142!

Many of **Trompeter's 70 Series** concentric twinax connectors are now **QPL'd** to **MIL-C-49142.**

QPL'd versions are **silver plated** and can be ordered using the **Red Government Designation** part numbers listed below. Corresponding **standard nickel plated** connectors can be ordered using the **Blue Standard** part numbers .

MIL-C-49142 /3 PL75-TRB plug, Pin contact

M49142/03-0001	PL75-7	M49142/03-0101	PL75Y-7	M49142/03-0201	PL75S-7
M49142/03-0002	PL75-7	M49142/03-0102	PL75Y-7	M49142/03-0202	PL75S-7
M49142/03-0005	305-0042-1	M49142/03-0105	305-0042Y-1	M49142/03-0205	305-0042S-1
M49142/03-0007	PL75-9	M49142/03-0107	PL75Y-9	M49142/03-0207	PL75S-9
M49142/03-0008	PL75-47	M49142/03-0108	PL75Y-47	M49142/03-0208	PL75S-47
M49142/03-0009	PL75-60	M49142/03-0109	PL75Y-60	M49142/03-0209	PL75S-60
M49142/03-0011	305-0811-1	M49142/03-0111	305-0811Y-1	M49142/03-0211	305-0811S-1

MIL-C-49142 /4 BJ76-TRB bulkhead jack, Socket contact/Jam nut, Solder pot

M49142/04-0004	BJ 76	M49142/04-0104	BJ 76Y	M49142/04-0204	BJ 76S

MIL-C-49142 /5 BJ 79-TRB bulkhead cable jack, Socket contact/Jam nut

M49142/05-0001	BJ 79-7	M49142/05-0101	BJ 79Y-7	M49142/05-0201	BJ 79S-7
M49142/05-0002	BJ 79-7	M49142/05-0102	BJ 79Y-7	M49142/05-0202	BJ 79S-7
M49142/05-0006	305-0042-7	M49142/05-0106	305-0042Y-7	M49142/05-0206	305-0042S-7
M49142/05-0007	BJ 79-9	M49142/05-0107	BJ 79Y-9	M49142/05-0207	BJ 79S-9
M49142/05-0008	BJ 79-47	M49142/05-0108	BJ 79Y-47	M49142/05-0208	BJ 79S-47
M49142/05-0009	BJ 79-60	M49142/05-0109	BJ 79Y-60	M49142/05-0209	BJ 79S-60
M49142/05-0011	BJ 79-3	M49142/05-0111	BJ 79Y-3	M49142/05-0211	305-0811S-3

MIL-C-49142 /6 CJ70-TRB cable jack, Socket contact

M49142/06-0001	CJ 70-7	M49142/06-0101	CJ 70Y-7	M49142/06-0201	CJ 70S-7
M49142/06-0002	CJ 70-7	M49142/06-0102	CJ 70Y-7	M49142/06-0202	CJ 70S-7
M49142/06-0006	305-0042-4	M49142/06-0106	305-0042Y-4	M49142/06-0206	305-0042S-4
M49142/06-0007	CJ 70-47	M49142/06-0107	CJ 70Y-47	M49142/06-0207	CJ 70S-47
M49142/06-0008	CJ 70-9	M49142/06-0108	CJ 70Y-9	M49142/06-0208	CJ 70S-9
M49142/06-0009	CJ 70-60	M49142/06-0109	CJ 70Y-60	M49142/06-0209	CJ 70S-60
M49142/06-0011	305-0811-2	M49142/06-0111	305-0811Y-2	M49142/06-0211	305-0811S-2

MIL-C-49142 /8 PL375-TRT cable plug, Pin contact

M49142/08-0001	PL 375-7	M49142/08-0005	305-0042-9	M49142/08-0008	PL 375-60
M49142/08-0002	PL 375-7	M49142/08-0006	PL 375-47	M49142/08-0010	305-0811-5
				M49142/08-0011	305-0486-1

MIL-C-49142 /9 BJ379-TRT bulkhead cable jack , Socket contact/Jam nut

M49142/09-0001	BJ 379-7	M49142/09-0006	BJ 379-47	M49142/09-0009	BJ 379-60
M49142/09-0002	BJ 379-7	M49142/09-0007	305-0042-11	M49142/09-0011	BJ 379-7
				M49142/09-0012	305-0486-3

MIL-C-49142 /10 BJ376-TRT bulkhead jack, Solder pot, Socket contact/Jam nut

				M49142/10-0201	BJ 376

MIL-C-49142 /11 CJ370-TRT cable jack, Socket contact

M49142/11-0001	CJ 370-7	M49142/11-0006	CJ 370-47	M49142/11-0009	CJ 370-60
M49142/11-0002	CJ 370-7	M49142/11-0007	305-0042-12	M49142/11-0011	305-0811-6
				M49142/11-0012	305-0486-6

Hermetically Sealed Bulkhead Jacks

Trompeter is capable of providing hermetically sealed connectors using **traditional stainless steel/iron-alloy tin/hermetic glass** technology (matched or compression sealed).

Trompeter can also provide standard connectors (brass bodies/beryllium copper spring fingers) which achieve hermeticity (> 10^{-8} atmospheres/cc./sec. of helium leakage) through a low-temp process.

For more information, consult the Factory.

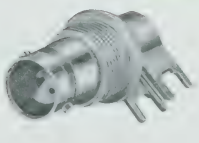
Standard Part#	Page	Hermetic Part#
BJ77	50	BJ77HS
BJ78	50	BJ78HS
BJ79	50	BJ79HS
BJ157	54	BJ157HS

Right angle Circuit Board Bukhead Jack

CBBJR39A

Two-pin Polarized Twinax (TWBNC)

The **CBBJR39A** is built to the same specifications as our **30 Series** (TWBNC/TWTNC) connectors and mates with our **PL30** cable plug. Its sturdy, **metal construction** provides a reliable interface for **rugged** applications **without** the need for **special grounding** (as with plastic connectors) and has the **same profile & footprint** as our **CBBJR79A** concentric twinax/triax, right angle circuit board jack (see page 51). The **CBBJR39A** can be incorporated into current designs without board layout changes.



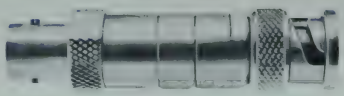
See page 51 for dimensions and mounting pattern

Adapters

Adapter Ordering Format & Circuitry Schematics

Adapters

• Coax • 2-pin Twinax • Concentric Twinax/Triax • Quadrax



Ordering format for adapters designated by "•" on facing page

AD - (Connector 1) - (Circuit code) - (Connector 2)

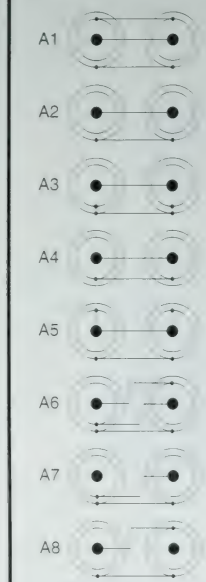
Example: AD - BJ20 - E1 - PL75

- BJ20 BNC jack
- E1 Circuit code
- PL75 TRB plug

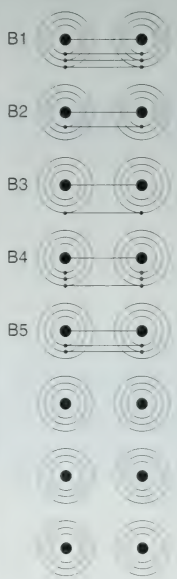
Circuit Schematics

For adapters not referenced contact the factory

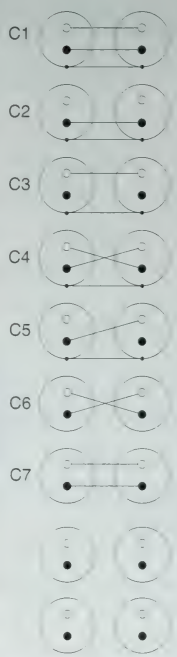
Concentric Twinax/Triax to Concentric Twinax/Triax



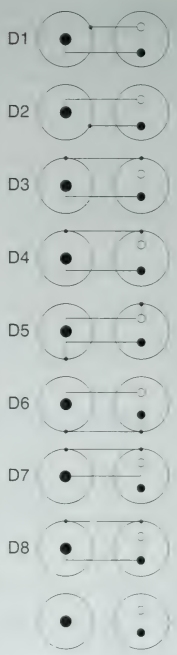
Quadrax to Quadrax



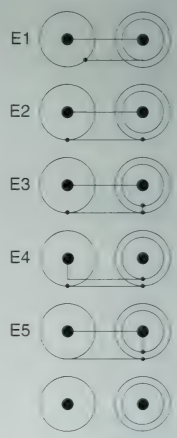
2-Pin Twinax to 2-Pin Twinax



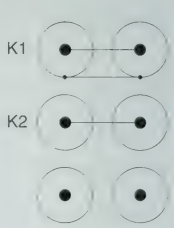
Coax to 2-Pin Twinax



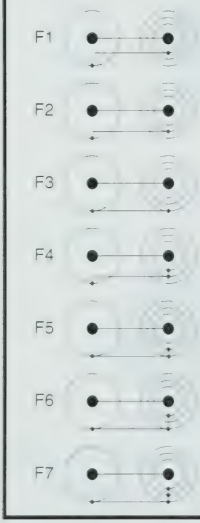
Coax to Concentric Twinax/Triax



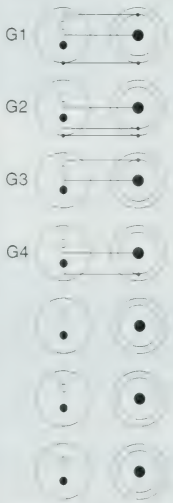
Coax to Coax



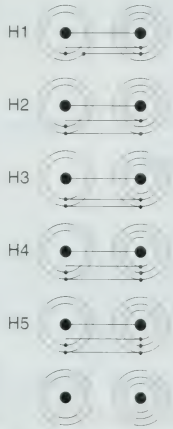
Coax to Quadrax



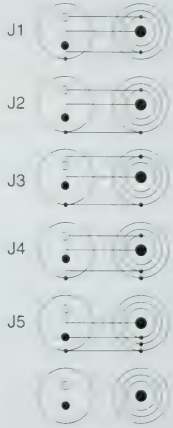
Two-Pin Twinax to Concentric Twinax/Triax



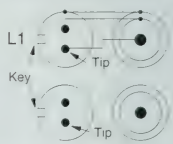
Concentric Twinax/Triax to Concentric Quadrax



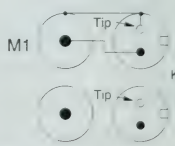
Two-Pin Twinax to Concentric Quadrax



Concentric Twinax/Triax to Large Two-Pin Twinax



Coax to Large 2-Pin Twinax



TROMPETER (818) 707-2020 Fax (818) 706-1040

Adapters

Adapter Tables: Coax to Coax & Coax/Twinax/Triax to Twinax/Triax

Adapters Coax to Coax

I - Insulated
B - Bulkhead Mount
U - 75 Ohm available
F - Female
M - Male

						TPS			BNC / TNC															F		LV		N				RCA			WECo	
						BJ59	CJ50	PL50	BJ20	BJ26	BJ29	CJ20	PL20	PL21	UPL121	PL122	PL123	BJ40	BJ46	BJ49	CJ40	PL40	PL41	BJ130	PL130	PL93	PL94	BJ95	BJ96	J95	PL95	J3	J12	PL11	PL1W	PL2W
									U	U	U	U	U			U	U	U	U	U	U	U	U					U	U	U	U					
						F	F	M	F	F	F	F	M	M	M	M	M	F	F	F	F	M	M	F	M	M	M	F	F	F	M	F	F	M	M	M
						B				B	B								B	B								B	B							
										I									I										I							
TPS		BJ50	F			17		•			•																					•				
		BJ59	F	B		17	17		•																					•						
		CJ50	F			17		•	•																					•						
TCM		BJ350	F			24		•				•																				•				
		BJ359	F			24	24		•																					•						
		CJ350	F			24		•	•									•												•						
BNC	U	BJ20	F			•		•	1	14	•	1	•			7	•	13	28		13	•			8	•	•	5	6		•					
	U	BJ26	F	B	I				14	14	14	14	•			•	•	27	27	27		•														
	U	BJ29	F	B					•	14							•	•	27	•		•														
	U	CJ20	F						1	14		1	•				•	27			27									•			•			
	U	PL20	M			•		•	•		•	•	•	•	•	•	•	•	•	•		•	•	9				•	•	•			•			•
TNC	U	BJ40	F					•	27	27		27	•			11	•	2	16	•	2	•						•			•					
	U	BJ46	F	B	I				27	27	27					•	•	16	16	16	16															
	U	CJ40	F						27			27					•	2	16		16									•						
	U	PL40	M			•		•	•	•	•					•	•	•	•	•		•								•						
F		BJ130	F							•	•	•	10			•	•		•	•	•	•		9				•			•					
LVSWR		PL93	M						•																					•	•					
N	U	BJ95	F	B					6				•					•						•				20								
	U	BJ96	F	B	I				6				•				•					•		•						•						
	U	J95	F					•		•	•	•	•			4	•		•	•	•	•														
	U	PL95	M						•						•		•	•				•		•		•				•	•		•			
RCA		J3	F											•	•																	•				
		J12	F									•	•																		•		•			
		PL11	M																															•		
		J3W	F											•	•																					
		J3WC	F										•									•														
		J3WE	F																															•		
		J9W	F																												•					
		PL2W	M										•																				•			

Ordering Custom Adapters

Adapters indexed with "•" are custom adapters and may be ordered using the **Ordering Format** on facing page.

Page 60

Adapters indexed with a number are standard adapters and may be ordered using the designated **Part#** from below.

Standard Adapters

Adapters Coax/Twinax/Triax to Twinax/Triax

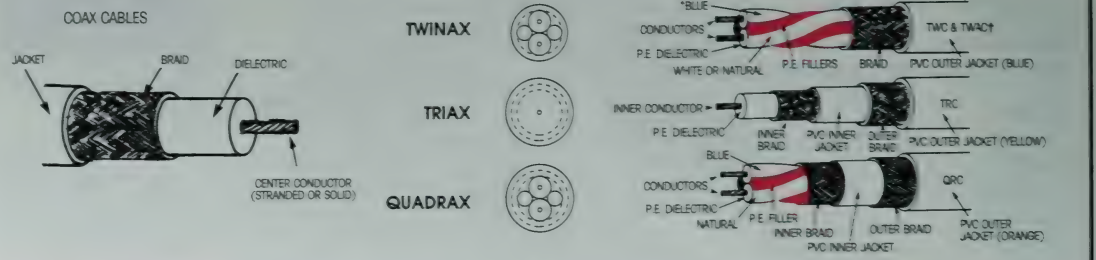
I - Insulated
B - Bulkhead Mount
U - 75 Ohm available
F - Female
M - Male

					TPS		TCM	BNC / TNC										N				TRS			TRB						TRT			TWBNC		TRC			QRC
					BJ50	PL50	BJ350	BJ20	BJ26	BJ29	CJ20	PL20	PL123	BJ40	BJ49	CJ40	PL40	BJ95	BJ96	J95	PL95	BJ157	BJ157FL	CJ150	BJ72	BJ74	BJ77	BJ79	CJ70	PL75	BJ377	BJ379	PL375	BJ30	PL30	BJ80	PL80	BJ101	
								U	U	U	U	U		U	U	U	U	U	U	U	U																		
					F	M	M	F	F	F	F	M	M	F	F	F	M	F	F	F	M	F	F	F	F	F	F	F	F	M	F	F	M	F	M	M	M	F	F
									B	B					B			B	B							B		B				B							
									I										I						I	I													
	BJ157	F																									•	•		•	•	•	•						
	BJ157FL	F																								•				•									
TRS	CJ150	F									•	•															•	•		•	•	•	•						
	PL150	M							•	•	•	•			•	•	•	•	•		•						•	•			•	•							
	PL155	M							•	•	•	•			•	•	•										•				•								
TTM	PL155FL	M							•	•	•	•			•	•	•										•				•								
	PL3155	M							•	•	•	•			•	•	•										•				•								
	BJ74	F	B	I				•	•	•		•	•	•	•		•			•	•	•	•			18	18	29			26	26			•				•
	BJ77	F				•			•	•	•	•	•		•	•	•	•	•	•	•	•	•	•		18	3	29	3	•	26	26	•		•		•	•	
TRB	BJ79	F	B					•		•		•		•			•			•	•	•	•	•		29	29	29		•	26	26	•		•				•
	CJ70	F			•		•	•						•						•							3		3		12			•	•				•
	PL71	M						•				•	•	•			•			•							•				•								
	PL74	M						•				•		•			•	•	•	•	•	•	•			•	•	•		•	•	•	•						
	PL75	M			•		•	•	•	•	•	•		•	•		•	•	•	•	•	•	•	•		•	•			•	•		•	•	•		•		•
	BJ374	F		I				•				•		•			•			•	•	•	•			•	•			•	•		•		•				•
TRT	BJ377	F				•			•	•	•	•	•		•	•	•	•	•	•	•																		
	BJ379	F	B					•		•		•		•			•			•	•	•	•			•	•			•	•		•		•				•
	CJ370	F			•		•	•						•						•							•				•				•				•
	PL375	M			•		•	•	•	•	•	•		•	•		•	•	•	•	•	•				•	•			•	•				•				•
TWBNC	BJ30	F									•	•				•	•																	•	•				
	BJ39	F	B			•																				•		•	•	•		•	•	15					
	CJ30	F																								•		•	•	•		•	•	•					•
TRC	PL30	M						•	•	•	•	•			•	•	•										•			•	•		•	•	•				•
	BJ89	M	B		•		•	•						•						•	•															19			
	BJ89F	M	B		•	•															•						•				•								
QRC	CJ80	M						•				•					•	•		•	•						•			•	•		•						
RCA	PL80	F						•												•	•						•				•							•	
	BJ101	F									•	•	•			•	•				•				•			•		•		•	•		•				•
	PL101	M						•			•	•		•		•				•								•				•							•

ID#	Part #
1	AD 28
2	AD 48
3	AD 78
4	AD 92
5	AD 95
6	ADI 95
7	AD122
8	AD130
9	AD 131
10	AD 133
11	AD 142
12	AD 378
13	AD 2848
14	BJ 28
15	BJ 38
16	BJ 48
17	BJ 58
18	BJ 73
19	BJ 88
20	BJ 98
21	BJ102
22	BJ158
23	BJ158FL
24	BJ 358
25	BJ373
26	BJ378
27	BJ 2848
28	BJ 4828

Cable Specifications

Coax, Twinax, Triax Cables



Coax, Twinax, Triax & Quadrax Cable

Trompeter Coax Cables... are manufactured to the listed specifications and offer optimum flexibility, shielding and performance. Cables with stranded center conductors have greater flexibility and are recommended for short runs at low frequency where constant cable movement might fatigue a single copper-weld center conductor.

† **M17/176-00002** and **TWAC-78-1F2** are 200° C. Hi Temp cables for MIL-STD-1553B pplications. Dielectric and fillers are P.T.F.E and outer jackets are PFA.

For information on cable construction and applications see **Electronic System Wiring and Cable** page 79-86

Trompeter Twinax, Triax, & Quadrax Cables...
are manufactured to the listed specifications.

All Dimensions are in inches.
All values without tolerances are nominal.

Cable Specifications — Coax

Designation	TCC-50-2	TCC-75-2	RG62 A/U	RG62 B/U
Impedance (Ohms)	50±2	75±3	93±3	93±3
Nominal outer dia.	0.196	0.242	0.242	0.242
PVC outer dia.	Green	Violet	Black	Black
Braid outer dia.	0.150	0.191	0.196	0.191
Braid AWG#/Mat'l	36/Tinned Cu	34/Bare Cu	34/Bare Cu	34/Bare Cu
Dielectric outer dia.	0.116	0.146	0.146	0.146
Dielectric mat'l	Solid PE	Foamed PE		
Conductor outer dia.	0.0375	0.031	0.0253	Stranded
Conductor strands/Mat'l	*19/.0071 Tinned Cu	1.040 Tinned Cu	Solid	7/.008 ICDS
Minimum bend radius	1.00	1.00		
Max. Opr. Vac. (RMS)	1.4 KV	1.7 KV	750 V	750 V
Capacitance pf/ft (Max.)	30.8	22.0	13.5	13.5
Cond. Loop Res. (Ω/M ft.)		17.6		
Atten. dB/100 ft:				
1 MHz	0.380	0.335	0.250	0.250
10 MHz	1.400	1.070	0.900	0.900
50 MHz	3.40	2.40	1.90	2.10
100 MHz	4.90	3.40	2.80	3.00
20 MHz	7.30	4.85	3.70	4.80
400 MHz	10.40	4.00	5.20	5.10
1 GHz	17.80	12.00	8.50	10.5
Shield Coverage	95%	93%		

Cable Specifications — Twinax — Triax — Quadrax

Designation	TWC-78-1	TWC-78-2	M17/176-00002	TWAC-78-1F2	TWC-*24-1A	TWC-124-2	TRC-50-1	TRC-50-2	TRC-75-1	TRC-75-2	QRC-78-2
Impedance (Ohms)	78±3	78±3	78±5	77±7	124±5	124±4	50±2	50±2	75±5	75±5	78±3
Nominal outer dia.	0.150	0.242	0.129	0.095	0.150	0.245	0.156	0.245	0.189	0.245	0.286
Outer braid dia.	0.108	0.195	0.102	0.070	0.105	0.195	0.121	0.210	0.150	0.205	0.240
Core outer dia.	0.088	0.154	0.084	0.052	0.085	0.162					0.156
Dielectric outer dia.	0.044	0.076	0.042	0.026	0.043	0.080	0.047	0.116	0.073	0.116	0.079
Innerbraid outer dia.							0.069	0.146	0.093	0.146	0.170
Inner jacket outer dia.							0.101	0.175	0.130	0.175	0.230
Conductor outer dia.	0.0220	0.0370	0.0240	0.0150	0.0120	0.0220	0.0150	0.0370	0.0120	0185	0.0400
Minimum bend radius	1.50	1.25	1.50	1.25	1.50	1.25	0.75	1.25	1.00	1.25	1.25
Max. Opr. VDC	0.6 KV	2.0 KV			0.6 KV	2.0 KV	2.0 KV	6.0 KV	2.0 KV	6.0 KV	
Max. Opr. Vac. (RMS)	0.3 KV	1.0 KV	1.0 KV		0.3 KV	1.0 KV	1.0 KV	2.0 KV	1.0 KV	2.0 KV	2.0 KV
Capacitance pf/ft. (Max)	20.30	19.70	24.00	23.00	12.40	*2.30	29.50	32.00	20.00	20.50	24.50
Cond. loop res. (Ohms/M ft.)	63.00	19.00	48.00	46.00	180.60	56.80					17.90
Atten. dB/100 ft.:											
1 MHz	2.000	0.600	1.400	2.000	3.250	0.540	2.800	0.500	0.900	0.480	1.000
3 MHz	3.000	1.000	2.100		4.400	0.920	3.100	0.800	1.300	0.880	1.600
4 MHz	3.500	1.200	2.400		4.800	1.060	3.300	0.900	1.500	1.010	
5 MHz	4.000	1.400	2.800		5.200	1.180	3.400	1.100	1.700	1.100	2.000
7 MHz	4.500	1.600	3.500		5.600	1.400	3.700	1.300	1.900	1.300	2.300
10 MHz	5.300	2.000	4.50 Max.	6.500	5.900	1.650	4.100	1.500	2.400	1.500	2.800
20 MHz	7.50	2.80			8.30	2.30	5.80	2.30	3.60	2.30	2.30
30 MHz	9.20	3.50			10.20	2.80	7.00	2.90	4.50	2.90	4.00
40 MHz	10.60	4.10			11.80	3.20	7.50	3.40	5.40	3.30	4.60
50 MHz	11.90	4.60			13.20	3.60	9.10	3.90	6.10	3.60	5.20
100 MHz	16.80	6.90			18.70	5.10	14.00	5.80	9.70	5.20	
200 MHz	23.70	9.90			26.40	7.20	22.00	8.80	16.50	7.60	
500 MHz	37.50	15.40			41.70	1.50	40.00	15.30	28.50	10.80	
700 MHz	44.30	18.30			49.40	13.50	50.00	18.00	36.00	14.70	
1 GHz	53.00	21.80			63.00	23.00	45.00	17.60			
Shield coverage	93%	93%	90%	90%	93%	93%	93%	93%	93%	0.93	0.93
Twist per ft.	8.00	4.00	13.00	16.00	8.00	4.00					4.10

VISA MasterCard
(818) 707-2020 Fax (818) 706-1040

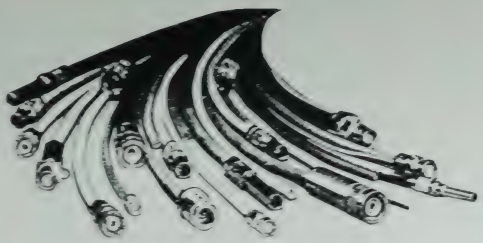
Cable Assemblies

Coax /Twinax/Triax

The following tables reference over **850 different coax cable assemblies** with over **126 different connector configurations,** using **eight standard coax cables.**

The tables also list **over 440 different Twinax/triax cable assemblies** with over **200 different connector configurations,** using **eight standard twinax/triax cables.**

These represent only a portion of **Trompeter's** capabilities for providing ***high quality cable assemblies.***



For over 25 years, Trompeter has been producing high quality cable assemblies and currently provides over a thousand different configurations using a broad range of RF connectors and cable types.

For other cable/connector configurations, contact the Factory or your local Trompeter Rep-Pages 94-96

Trompeter can provide the following general scope of hardware and capabilities:

Cable:	**Coax, Twinax, Triax, Quadrax**
Connectors:	**Any Trompeter cable-attached product produced by Trompeter:** Plugs, jacks, patch plugs, patch jacks, databus contacts, etc **Other non-Trompeter products:** e.g. SMA, SMB, SMC, coax contacts for multi-pin connectors, etc Note: At least one Trompeter product required on assembly
Quality Assurance :	**QA'd to Mil-I-45208A**
Testing :	**100% electrical testing for continuity and shorts is standard.** Other electrical and mechanical testing available upon request: Hi-Pot, DWV, insertion loss, Tensile pull test, etc
Custom Additions:	**Special marking-ID sleeves, tags, not stamping, color coding, etc**
Production Rates:	**48-hour turn-around on many products.** **Full capabilities for sustained high volume deliveries.** **Deliveries can be adjusted to meet customer needs.**

Cable Assemblies

New Section!

Coax Cable Assemblies

For coax cable assemblies indexed with **black** numbers in the tables below, **order part number** ..... **11-01- ⚠ - L**

⚠ = Number from table. **L** = Cable length in inches.

Example: **BJ21** bulkhead jack & **no** second connector
RG62 cable
12" cable assembly

Order **part number:** ..... **11-01- 705 - 12**
705 (From top row, 3rd cable column of table below)
Length (in inches)

To order coax cable assemblies with **blue** standard model numbers replace ..... **"L"** with **cable length** in inches

Example: Two **PL1C** connectors with **6** " of **TCC-50-2** cable Order **Model Number:** ..... **PC- 6 -50**

For other cables, connectors or bend relief boots /springs, contact the factory.

Length Tolerances
0" to <6" +/-.25" **6" to <73"** +.50"/-.25"
73" to <181" +2.00"/- 1.00" **181" to <481"** +4.00"/-2.00"
481" to <1201" +6.00"/- 3.00" **≥1201"** +1%/- 1/2%"

Trompeter Coax Cable Assemblies Connector 1	Connector 2 (Note)	TCC-50-2 1 / 011	TCC-75-2 2 / 013A	RG62 2 / 013	RG223 3 / 012	RG58 1 / 011	RG59 2 / 013	RG142 1 / 012	RG303 21 / 011	Circuit
BJ 21	None	704	217	705	706	707	708	709	710	K2
BJ 26	PL 40	40	287	288	289	99	290	291	292	K1
BJ 29	BJ 29	823	824	825	826	827	828	829	830	K1
BJ 29	PL 20	128	438	439	440	87	441	442	443	K1
BJ 46	PL 40	635	636	637	638	639	640	193	641	K1
BJ 59	None	831	832	833	834	835	836	837	838	K2
BJ 74 FOS	UPL 20	-	810	811	-	-	812	-	-	E1
BJ 246GF	None	194	642	643	644	645	646	647	648	K2
CJ 20	CJ 40	30	259	260	31	95	261	262	263	K1
CJ 220	None	234	773	774	775	776	777	778	779	K2
CJ 220	PL 220	235	780	781	782	783	784	785	786	K1
J 3E	J 3E	618	619	187	620	621	622	623	-	K1
J 3E	PL 20	496	497	126	498	499	500	501	-	K1
J 3WE	None	387	69	388	389	390	391	392	-	K2
J 12	PL 1WC	321	54	322	323	324	325	326	-	K1
J 12NMF	PL 1WC	490	125	491	492	493	494	495	-	K1
MP2W	PL 1WC	-	MPCW-L-75	313	-	-	314	-	-	K1
MP3W	MP3W	PPCW-L-50	PPCW-L-75	384	-	108	385	386	-	K1
PL 1C	CJ 220	839	840	841	842	843	844	845	846	K1
PL 1C	MP3	226	750	751	-	752	753	754	-	K1
PL 1C	PL 1C	PC-L-50	PC-L-75	PC-L-93	2	88	189	203	228	K1
PL 1C	PL 1WC	179	180	181	182	183	604	605	606	K1
PL 1C	PL 71	PCV-L-50	-	-	-	90	-	207	-	E2
PL 1C	PL 71	221	PCV-L-75	PCV-L-93	-	725	208	726	-	E1
PL 1C	UG536 B/U (Note 4)	86	-	-	-	-	113	-	-	K1
PL 1WC	CJ 20	860	861	862	863	864	865	866	867	K1
PL 1WC	J 3WE	278	37	279	280	281	282	283	-	K1
PL 1WC	MP3W	755	227	756	-	757	758	759	-	K1
PL 1WC	PL 1WC	PCW-L-50	PCW-L-75	PCW-L-93	6	89	204	205	206	K1
PL 1WC	PL 11C	375	61	376	377	378	379	380	381	K1
PL 1WC	PL 71	PCWV-L-50	PCWV-L-75	PCWV-L-93	-	91	236	209	-	E2
PL 1WC	UCJ 20	794	795	796	797	798	799	800	801	K1
PL 2	PL 2	-	848	849	-	-	850	-	851	K1
PL 3C	PL 3C	244	245	246	21	247	248	249	250	K1
PL 3C	PL 20	-	-	-	822	-	-	-	-	K1
PL 3C	PL 95	237	787	788	789	790	791	792	793	K1
PL 11C	J 3WE	327	55	328	329	330	340	350	-	K1
PL 11C	PL 11C	293	82	41	294	295	296	297	298	K1
PL 11C	PL 50	421	81	422	423	424	425	426	-	K1
PL 11C	UPL 20	364	58	365	366	367	368	369	370	K1
PL 11C	UPL 220	718	220	719	720	721	722	723	724	K1
PL 20	None	214	427	83	233	428	429	430	431	K2
PL 20	Banana 210-104 (Note 5)	52	-	-	-	104	-	-	-	X1
PL 20	Banana 210-112 (Note 5)	-	53	-	-	-	-	-	-	X1
PL 20	BJ 26	174	175	176	177	178	601	602	603	K1
PL 20	BJ 95	121	462	463	464	465	466	467	468	K1
PL 20	CJ 20	62	63	64	39	106	284	285	286	K1
PL 20	F59A (Note 7)	-	70	393	-	-	-	-	-	K1
PL 20	MP3	224	740	741	-	742	743	744	-	K1
PL 20	MP3W	745	225	746	-	747	748	749	-	K1
PL 20	PL 1C	PCX-L-50	PCX-L-75	PCX-L-93	16	92	238	239	240	K1
PL 20	PL 1WC	PCWX-L-50	PCWX-L-75	PCWX-L-93	20	93	241	242	243	K1
PL 20	PL 11C	469	122	470	471	472	473	474	475	K1
PL 20	PL 20	PCY-L-50	PCY-L-75	PCY-L-93	25	251	190	252	253	K1
PL 20	PL 40	28	254	255	29	94	256	257	258	K1
PL 20	PL 50	170	172	51	231	318	319	320	-	K1
PL 20	PL 75	127	-	-	-	502	-	503	-	E1
PL 20	PL 123	624	188	625	211	219	626	627	628	K1
PL 20	Rt. Angle BNC (Note 4)	65	-	-	-	107	-	383	-	K1
PL 20	Rt. Angle SMA (Note 6)	60	-	-	-	105	-	382	-	K1

Cable Assemblies

Coax Cable Assemblies

New Section!

Cable Assembly Marking:

Cables are marked **center only** on cables **60" or less.**
Cables are marked **at both ends** on cables **over 60".**

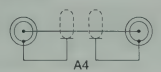
For special marking such as ID sleeves, tags, hot stamping, color coding, etc., contact the factory

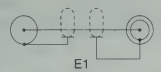
Connector Notes:

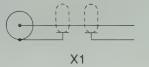
For other connectors contact factory.
At least one **Trompeter** product required on assembly.

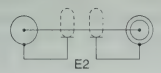
4 ..... Amphenol
5 ..... H.H. Smith
6 ..... Bell Ind.
7 ..... Jerrold

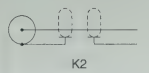
Circuit Schematics

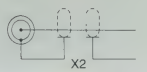












Trompeter Coax Cable Assemblies		TCC-50-2	TCC-75-2	RG62	RG223	RG58	RG59	RG142	RG303	Circuit
Connector 1	Connector 2 (Note)	1 / 011	2 / 013A	2 / 013	3 / 012	1 / 011	2 / 013	1 / 012	21 / 011	
PL 40	CJ 40	32	33	34	264	96	265	266	267	K1
PL 40	PL 1C	210	676	677	678	679	680	681	682	K1
PL 40	PL 40	84	371	372	59	112	373	192	374	K1
PL 50	None	767	768	769	232	770	771	772	-	K2
PL 50	PL 40	222	727	728	729	730	731	732	-	K1
PL 50	PL 130	588	171	589	590	591	592	593	-	K1
PL 50	UCJ 20	629	630	191	631	632	633	634	-	K1
PL 75	PL 20	-	-	-	200	-	-	-	-	E2
PL 75	None	184	-	-	-	607	-	608	-	X2
PL 75	PL 75	185	-	-	-	609	-	610	-	A4
PL 94	PL 1C	357	358	359	57	360	361	362	363	K1
PL 94	PL 20	42	299	300	301	100	302	303	304	K1
PL 95	BJ 26	697	698	699	700	216	701	702	703	K1
PL 95	BJ 95	229	649	650	196	651	652	653	654	K1
PL 95	PL 1C	36	272	273	274	98	275	276	277	K1
PL 95	PL 1WC	412	79	413	414	415	416	417	418	K1
PL 95	PL 20	120	78	407	201	408	409	410	411	K1
PL 95	PL 40	690	691	692	693	215	694	695	696	K1
PL 95	PL 95	35	77	268	195	97	269	270	271	K1
PL 95	PL 130	432	85	433	434	435	436	437	-	K1
PL 123	PL 1C	PCPX L-50	PCPX-L-75	PCPX-L-93	305	101	306	307	308	K1
PL 123	PL 1WC	PCPWX-L-50	PCPWX-L-75	PCPWX-L-93	578	579	580	581	582	K1
PL 123	PL 123	PCP-L-50	PCP-L-75	PCP-L-93	212	110	398	399	400	K1
PL 220	None	202	669	670	671	672	673	674	675	K2
PL 220	PL 1C	PCXC-L-50	PCXC-L-75	PCXC-L-93	518	159	519	520	521	K1
PL 220	PL 1WC	PCWXC-L-50	PCWXC-L-75	PCWXC-L-93	522	160	523	524	525	K1
PL 220	PL 220	PCYC-L-50	PCYC-L-75	PCYC-L-93	197	161	526	527	528	K1
PL 223	None	223	733	734	735	736	737	738	739	K2
PL 223	BJ 95	199	662	663	664	665	666	667	668	K1
PL 223	PL 1C	PCPXC-L-50	PCPXC-L-75	PCPXC-L-93	529	162	530	531	532	K1
PL 223	PL 95	198	655	656	657	658	659	660	661	K1
PL 223	PL 223	PCPC-L-50	PCPC-L-75	PCPC-L-93	543	164	544	545	546	K1
PL 240	PL 240	213	683	684	685	686	687	688	689	K1
UBJ 26	None	711	218	712	713	714	715	716	717	K2
UBJ 26	UPL 20	802	803	804	805	806	807	808	809	K1
UCJ 20	UCJ 20	868	869	870	871	872	873	874	875	K1
UG111/U (4)	UG111/U (4)	-	38	-	-	-	-	-	-	K1
UPL 20	None	611	186	612	613	614	615	616	617	K2
UPL 20	PL 1C	444	UPCX-L-75	UPCX-L-93	445	446	447	448	449	K1
UPL 20	PL 1WC	450	UPCWX-L-75	UPCWX-L-93	451	452	453	454	455	K1
UPL 20	UBJ 29	852	853	854	855	856	857	858	859	K1
UPL 20	UCJ 20	760	230	761	762	763	764	765	766	K1
UPL 20	UPL 20	351	UPCY-L-75	UPCY-L-93	352	353	354	355	356	K1
UPL 20	PL 40	813	814	815	816	817	818	819	820	K1
UPL 20	UPL 122	-	821	-	-	-	-	-	-	K1
UPL 40	PL 1WC	483	124	484	485	486	487	488	489	K1
UPL 40	PL 11C	476	123	477	478	479	480	481	482	K1
UPL 40	UPL 40	571	165	572	573	574	575	576	577	K1
UPL 95	PL 1WC	511	130	512	513	514	515	516	517	K1
UPL 95	PL 11C	504	129	505	506	507	508	509	510	K1
UPL 95	UPL 95	594	173	595	596	597	598	599	600	K1
UPL 123	PL 1C	456	UPCPX-L-75	UPCPX-L-93	457	458	459	460	461	K1
UPL 123	PL 1WC	UPCPWX-L-50	UPCPWX-L-75	UPCPWX-L-93	309	102	310	311	312	K1
UPL 123	UPL 123	401	UPCP-L-75	UPCP-L-93	402	403	404	405	406	K1
UPL 220	MP3	583	169	584	-	585	586	587	-	K1
UPL 220	PL 1C	553	UPCXC-L-75	UPCXC-L-93	554	555	556	557	558	K1
UPL 220	PL 1WC	559	UPCWXC-L-75	UPCWXC-L-93	560	561	562	563	564	K1
UPL 220	UPL 220	537	UPCYC-L-75	UPCYC-L-93	538	539	540	541	542	K1
UPL 223	PL 1C	565	UPCPXC-L-75	UPCPXC-L-93	566	567	568	569	570	K1
UPL 223	PL 1WC	PCPWXC-L-50	PCPWXC-L-75	PCPWXC-L-93	533	163	534	535	536	K1
UPL 223	UPL 223	547	UPCPC-L-75	UPCPC-L-93	548	549	550	551	552	K1

New Section!

Cable Assemblies

Twinax/Triax Cable Assemblies

New Section!

For twinax/triax cable assemblies indexed with black numbers from the the tables below order part number .....**21- ② - L**
② = Number from table **L** = Cable length in inches

Example: **BJ74** bulkhead jack & **no** second connector
TWC-78-1 twinax cable
12" cable assembly

Order part number .....**21- 01-93 - 12**
01-93 (From second row, 1st cable column of table below)
Length in inches

Connector Notes:
***-** FEP/PTFE Dielectrics
1- ADC/McMaster-Car audio plug
5C- Raychem-Customer supplied
4A- Switchcraft #297
4B- Switchcraft #413
5D- ITT Cannon
4C- HH Smith #1675-103 for TWC-78-1, #242-103 for TWC-124-1A
5A- HH Smith #1675-105 for TWC-78-2, #1675-105 for TWC-124--2
5B- HH Smith #1675-107 for TWC-78-2, #242-103 for TWC-124-2

For other cables, connectors or bend relief boots /springs, contact the factory.

Length Tolerances **0" to <6"** +/-.25" **6" to <73"** +.50"/-.25" **73" to <181"** +2.00"/- 1.00" **181" to <481"** +4.00"/-2.00" **481" to <1201"** +6.00"/- 3.00" **≥1201"** +1%/-1/2%"

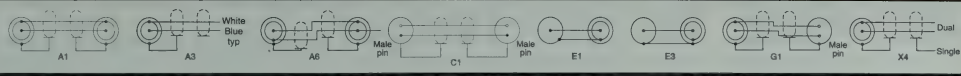
Twinax/Triax Cable Assemblies Connector 1	Connector 2 (Note)	TWC-78-1 29/202	TWC-124-1A 29/203	Circuit 01	TWC-78-2 9/213	TWC-124-2 9/214	Circuit 03	TRC-50-2 7/306	TRC-75-2 7/-	Circuit 04	TRC-50-1 32/-	Circuit 05	M17/176-00002 47/201	Circuit 07
BJ 29	PL 20	-	-	-	-	-	-	04-55	04-56	X5	-	-	-	-
BJ 74	None	01-93	-	A3	-	-	-	04-27	04-28	A2	-	-	07-22	A2
BJ 74	PL 20	-	-	-	-	-	-	04-23	04-24	E1	-	-	-	-
BJ 74	PL 75	-	-	-	03-96	03-97	A1	-	-	-	-	-	-	-
BJ 74	PL 155	-	-	-	-	-	-	-	-	-	-	-	07-37	A1
BJ 74BR	None	-	-	-	-	-	-	-	-	-	-	-	07-31	A2
BJ 74BR	PL 455ACPP	-	-	-	-	-	-	-	-	-	-	-	07-36	A1
BJ 74BR	PL 455ACWP	-	-	-	-	-	-	-	-	-	-	-	07-34	A1
BJ 79	None	01-23	01-24	A3	03-30	03-31	A2	-	-	-	05-17	A2	-	-
BJ 79	BJ 79	01-25	01-26	A1	03-17	03-18	A1	04-71	04-72	A1	O5-18	A1	-	-
BJ 79	PL 75	-	-	-	-	-	-	-	-	-	-	-	07-12	A1
BJ 79	PL 155AC	-	-	-	-	-	-	04-90	-	A1	-	-	-	-
BJ 79C	None	-	-	-	-	-	-	-	-	-	-	-	07-83	A2
BJ 79CFL	None	-	-	-	-	-	-	-	-	-	-	-	07-84	A2
BJ 159AC	None	-	-	-	-	-	-	-	-	-	-	-	07-13	A2
BJ 159AC	BJ 159AC	-	-	-	-	-	-	-	-	-	-	-	07-48	A1
BJ 159ACFL	None	-	-	-	-	-	-	-	-	-	-	-	07-47	A2
BJ 159ACFL	BJ 159ACFL	-	-	-	-	-	-	-	-	-	-	-	07-49	A1
BJ 379	None	-	-	-	03-59	03-60	A2	-	-	-	-	-	-	-
BJ 459ACPP	None	-	-	-	-	-	-	-	-	-	-	-	07-74	A2
BJ 459ACPS	None	-	-	-	-	-	-	-	-	-	-	-	07-75	A2
BJ 459ACWP	None	-	-	-	-	-	-	-	-	-	-	-	07-76	A2
BJ 459ACRS	None	-	-	-	-	-	-	-	-	-	-	-	07-43	A2
BJ 459ACWS	None	-	-	-	-	-	-	-	-	-	-	-	07-41	A2
CJ 70	None	01-85	-	A3	03-79	03-80	A2	-	-	-	-	-	07-45	A2
CJ 70	CJ 70	01-86	-	A1	03-101	03-102	A1	-	-	-	-	-	-	-
CJ 70TL	PL 74	-	-	-	-	-	-	04-69	04-70	A1	-	-	-	-
CJ 70TL	PL 75	-	-	-	-	-	-	-	-	-	-	-	07-70	A1
CJ 80	CJ 80	-	-	-	-	-	-	04-79	04-80	A1	-	-	-	-
CJ 150	None	01-84	-	A3	-	-	-	-	-	-	-	-	-	-
CJ 150	PL 150	01-65	01-66	A1	-	-	-	-	-	-	-	-	-	-
CJ 150	PL 155	-	-	-	-	-	-	-	-	-	-	-	07-20	A1
CJ 170	PL 75	-	-	-	-	03-85	L1	-	-	-	-	-	-	-
J 72S	None	01-37	01-38	A3	-	-	-	-	-	-	05-8	A2	-	-
J 72S	CJ 150	01-35	01-36	A1	-	-	-	-	-	-	05-7	A1	-	-
J 72S	J 150	01-31	01-32	A1	-	-	-	-	-	-	05-5	A1	-	-
J 72S	PL 75	01-29	01-30	A1	-	-	-	-	-	-	05-4	A1	-	-
J 72S	PL 155	01-33	01-34	A1	-	-	-	-	-	-	05-6	A1	-	-
J 150	None	01-2	01-13	A3	-	-	-	-	-	-	05-10	A2	-	-
J 150	J 150	-	-	-	-	-	-	-	-	-	-	-	07-87	A1
J 150	PL 75	01-98	01-99	A1	-	-	-	-	-	-	-	-	-	-
LPW-CE	Banana plug (Note 5B)	-	-	-	03-42	03-43	X4	-	-	-	-	-	-	-
LPW-CE	LPW-CE	-	-	-	03-44	03-45	X5	-	-	-	-	-	-	-
PL 1C	PL 71	-	-	-	03-63	03-64	E1	-	-	-	-	-	-	-
PL 1WC	PL 71	-	-	-	03-65	03-66	E1	-	-	-	-	-	-	-
PL 20	None	-	-	-	03-40	03-41	X3	-	-	-	-	-	-	-
PL 20	PL 20	-	-	-	-	-	-	04-17	04-18	X2	-	-	-	-
PL 20	PL 20	-	-	-	-	-	-	04-47	04-48	X4	-	-	-	-
PL 20	PL 20	-	-	-	-	-	-	04-43	04-44	X1	-	-	-	-
PL 20	PL 75	-	-	-	03-53	03-54	E3	-	-	-	-	-	-	-
PL 20	PL 150	01-79	01-80	E1	-	-	-	-	-	-	-	-	-	-
PL 20	PL 155	-	-	-	-	-	-	-	-	-	05-27	E1	-	-
PL 30	CJ 30	-	-	-	03-67	03-68	C1	-	-	-	-	-	-	-
PL 30	CJ 80	-	-	-	03-13	03-14	G1	-	-	-	-	-	-	-
PL 30	PL 20	-	-	-	-	03-107	D4	-	-	-	-	-	-	-
PL 30	PL 30	01-59	01-60	C1	03-46	03-47	C1	-	-	-	-	-	-	-
PL 33	PL 33	-	-	-	03-89	-	C1	-	-	-	-	-	-	-
PL 40	None	-	-	-	-	-	-	04-31	04-32	X3	-	-	-	-
PL 40	PL 40	-	-	-	-	-	-	04-29	04-30	X1	-	-	-	-
PL 71	None	-	-	-	03-77	03-78	A2	-	-	-	-	-	-	-
PL 71	3 Circuit plug (Note 4B)	-	-	-	03-9	03-10	X1	-	-	-	-	-	-	-
PL 71	3 Cond plug (Note 4A)	-	-	-	03-7	03-8	A1	-	-	-	-	-	-	-
PL 71	Banana plug (Note 5A)	-	-	-	03-11	03-12	X2	-	-	-	-	-	-	-
PL 71	CJ 70	-	-	-	03-61	03-62	A1	-	-	-	-	-	07-39	A1
PL 71BR	PJ047B MOD	01-104	01-105	E1	-	-	-	-	-	-	-	-	-	-
PL 71	PL 2	-	-	-	-	-	-	04-35	04-36	E3	-	-	-	-
PL 71	PL 2	-	-	-	-	-	-	04-33	04-34	E1	-	-	-	-
PL 71	PL 2W	-	-	-	-	-	-	04-39	04-40	E1	-	-	-	-

Cable Assemblies

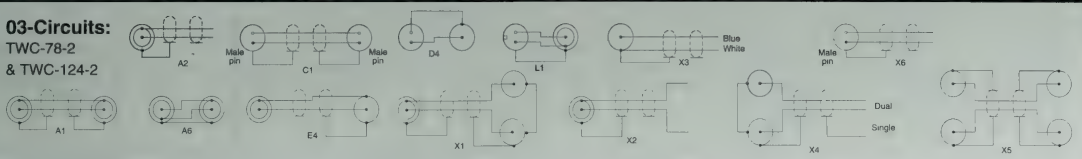
Twinax/Triax Cable Assemblies

New Section!

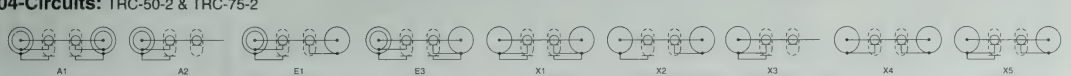
01-Circuits: TWC-78-1 & TWC-124-1A



03-Circuits: TWC-78-2 & TWC-124-2

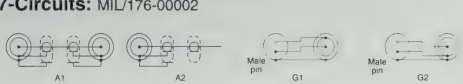


04-Circuits: TRC-50-2 & TRC-75-2



05-Circuits: TRC-50-1

07-Circuits: MIL/176-00002



Twinax/Triax Cable Assemblies		TWC-78-1	TWC-124-1A	Circuit	TWC-78-2	TWC-124-2	Circuit	TRC-50-2	TRC-75-2	Circuit	TRC-50-1	Circuit	M17/176-00002	Circuit
Connector 1	Connector 2 (Note)	29/202	29/203	01	9/213	9/214	03	7/306	7/-	04	32/-	05	47/201	07
PL 71	PL 20	-	-	-	03-38	03-39	E3	04-13	04-14	E3	-	-	-	-
PL 71	PL 20	-	-	-	03-21	03-22	E1	04-15	04-16	E1	-	-	-	-
PL 71	PL 71	-	-	-	03-28	03-29	A1	04-1	04-2	A1	-	-	07-8	A1
PL 71	PL 150	01-55	01-56	A1	-	-	-	-	-	-	-	-	-	-
PL 71	PL 155	01-57	01-58	A1	-	-	-	-	-	-	-	-	-	-
PL 73	PL 73	-	-	-	-	-	-	04-87	-	A1	-	-	-	-
PL 74	None	-	-	-	-	-	-	04-89	-	A2	05-26	A2	-	-
PL 74	BJ 29	-	-	-	-	-	-	04-59	04-60	E1	-	-	-	-
PL 74	CJ 70	-	-	-	-	-	-	-	-	-	05-25	A1	-	-
PL 74	CJ 80	-	-	-	-	-	-	04-84	04-85	A1	-	-	-	-
PL 74	PL 20	-	-	-	03-73	03-74	E1	-	-	-	05-21	E1	-	-
PL 74	PL 30	-	-	-	03-48	03-49	G1	-	-	-	-	-	-	-
PL 74	PL 74	-	-	-	03-90	-	A1	04-65	04-66	A1	-	-	07-52	A1
PL 74	PL 75	-	-	-	03-111	03-112	A1	-	-	-	-	-	-	-
PL 74	PL 80	-	-	-	-	-	-	04-82	04-83	A1	-	-	-	-
PL 74C	PL 74C	-	-	-	03-109	03-110	A1	-	-	-	-	-	-	-
PL 74C	PL 75C	-	-	-	-	-	-	04-88	-	A1	-	-	-	-
PL 75	None	01-6	01-17	A3	03-25	-	A2	04-49	04-50	A2	05-14	A2	07-14	A2
PL 75	152100-1803 (Note 5D)	-	-	-	-		-	-	-	-	-	-	07-66	A1
PL 75	BJ 74	01-102	01-103	A1	-	-	-	-	-	-	-	-	-	-
PL 75	BJ 79	01-89	01-91	A1	03-1	03-2	A1	04-11	04-12	A1	05-24	A1	-	-
PL 75	CJ 70	01-81	01-82	A1	03-51	03-52	A1	04-61	04-62	A1	-	-	07-27	A1
PL 75	D621-1039 (Note 5C)	01-83	-	A1	-	-	-	-	-	-	-	-	-	-
PL 75	J 15W	-	-	-	03-36	03-37	X1	-	-	-	-	-	-	-
PL 75	J 72S	-	-	-	03-23	03-24	A1	-	-	-	-	-	-	-
PL 75	PL 2	-	-	-	-	-	-	04-37	04-38	E3	-	-	-	-
PL 75	PL 20	-	-	-	03-19	03-20	E1	04-45	04-46	E1	05-28	E1	-	-
PL 75	PL 20	-	-	-	03-15	03-16	E3	04-19	04-20	E3	-	-	-	-
PL 75	PL 30	01-71	01-72	G1	03-3	03-4	G1	-	-	-	-	-	-	-
PL 75	PL 40	-	-	-	-	-	-	04-41	04-42	E3	-	-	-	-
PL 75	PL 71	-	01-94	A1	03-26	03-27	A1	04-3	04-4	A1	-	-	-	-
PL 75	PL 74	01-51	01-52	A1	-	-	-	04-63	04-64	A1	-	-	-	-
PL 75	PL 75	-	-	-	03-69	03-70	A6	-	-	-	05-3	A1	07-9	A1
PL 75	PL 75	01-8	01-19	A1	03-5	03-6	A1	04-5	04-6	A1	-	-	-	-
PL 75	PL 75FL	-	-	-	-	-	-	-	-	-	-	-	07-82	A1
PL 75	PL 80	-	-	-	03-32	03-33	A1	-	-	-	-	-	-	-
PL 75	PL 95	-	-	-	-	-	-	04-21	04-22	E1	-	-	-	-
PL 75	PL 155AC	01-47	01-48	A1	03-98	03-99	A1	-	-	-	-	-	07-10	A1
PL 75	PL 155ACFL	01-49	01-50	A1	-	-	-	-	-	-	-	-	07-11	A1
PL 75	PL 375	-	-	-	-		-	-	-	-	-	-	07-30	A1
PL 75	PL3155	01-122	01-123	A1	-	-	-	-	-	-	-	-	-	-
PL 75	PLR 75C	01-106	01-107	A1	-	-	-	-	-	-	-	-	-	-
PL 75	PLR 75CFL	01-120	01-121	A1	-	-	-	-	-	-	-	-	-	-
PL 75	SPC8P-201	-	-	-	-		-	-	-	-	-	-	07-53	A1
PL 75	SPC8S-201	-	-	-	-		-	-	-	-	-	-	07-54	A1
PL 75	UPL 20	-	-	-	-	-	-	04-73	04-74	E1	-	-	-	-
PL 75BR	PL 75BR	-	-	-	-		-	-	-	-	-	-	07-33	A1
PL 75BR	PL 330BR	-	-	-	-		-	-	-	-	-	-	07-88	G2
PL 75BR	PL 330BR	-	-	-	-		-	-	-	-	-	-	07-61	G1
PL 75BR	PL 455ACPP	-	-	-	-	-	-	-	-	-	-	-	07-35	A1
PL 75BR	PL 455ACWP	-	-	-	-	-	-	-	-	-	-	-	07-32	A1
PL 75C	BJ 79C	-	-	-	03-87	-	A1	-	-	-	-	-	-	-
PL 75C	CJ3450ACP	-	-	-	-	-	-	-	-	-	-	-	07-62	A1
PL 75C	PL 75C	-	-	-	03-83	03-84	A1	04-81	-	A1	-	-	07-42	A1
PL 75C	PL 155AC	-	-	-	03-108	-	A1	-	-	-	-	-	-	-

New Section!

Cable Assemblies

New Section!

Twinax/Triax Cable Assemblies

Twinax/Triax Cable Assemblies		TWC-78-1	TWC-124-1A	Circuit	TWC-78-2	TWC-124-2	Circuit	TRC-50-2	TRC-75-2	Circuit	TRC-50-1	Circuit	M17/176-00002	Circuit
Connector 1	Connector 2 (Note)	29/202	29/203	01	9/213	9/214	03	7/306	7/-	04	32/-	05	47/201	07
PL 75C	PL3455ACS	-	-	-	-	-	-	-	-	-	-	-	07-63	A1
PL 75CFL	PL 75C	-	-	-	-	-	-	-	-	-	-	-	07-85	A1
PL 75FL	None	-	-	-	-	-	-	-	-	-	-	-	07-60	A2
PL 75FL	PL 75FL	-	-	-	03-88	03-91	A1	-	-	-	-	-	07-40	A1
PL 75FL	PL 155FL	01-118	01-119	A1	-	-	-	-	-	-	-	-	-	-
PL 75WP	PL 75WP	-	-	-	-	-	-	-	-	-	-	-	07-28	A1
PL 80	CJ 80	-	-	-	-	-	-	04-9	04-10	A1	-	-	-	-
PL 80	J 15	-	-	-	03-34	03-35	X1	-	-	-	-	-	-	-
PL 80	PL 20	-	-	-	-	-	-	04-25	04-26	E3	-	-	-	-
PL 80	PL 80	-	-	-	-	-	-	04-7	04-8	A1	-	-	-	-
PL 95	PL 20	-	-	-	-	-	-	04-53	04-58	X1	-	-	-	-
PL 150	None	01-92	01-95	A3	-	-	-	-	-	-	-	-	07-5	A2
PL 150	CJ 70	01-69	01-70	A1	-	-	-	-	-	-	-	-	-	-
PL 150	PL 75	01-7	01-18	A1	-	-	-	-	-	-	05-2	A1	-	-
PL 150	PL 150	01-9	01-20	A1	-	-	-	-	-	-	05-15	A1	07-1	A1
PL 150	PL 155	01-10	01-21	A1	-	-	-	-	-	-	05-16	A1	-	-
PL 153	None	-	-	-	-	-	-	-	-	-	05-30	A2	-	-
PL 153	PL 73	01-130	01-131	A1	-	-	-	-	-	-	-	-	-	-
PL 153	PL 153	01-132	01-133	A1	-	-	-	-	-	-	-	-	-	-
PL 153	PL 155	-	-	-	-	-	-	-	-	-	05-31	A1	-	-
PL 155	None	01-1	01-12	A3	-	-	-	-	-	-	05-9	A2	07-6	A2
PL 155	Banana Plug 4C	01-39	01-40	X1	-	-	-	-	-	-	-	-	-	-
PL 155	BJ 74	-	-	-	-	-	-	-	-	-	05-29	A1	-	-
PL 155	BJ 79	01-100	01-101	A1	-	-	-	-	-	-	-	-	-	-
PL 155	CJ 40	01-88	-	E3	-	-	-	-	-	-	-	-	-	-
PL 155	CJ 70	01-126	01-127	A1	-	-	-	-	-	-	-	-	07-86	A1
PL 155	CJ 150	01-5	01-16	A1	-	-	-	-	-	-	05-13	A1	-	-
PL 155	J 150	01-3	01-14	A1	-	-	-	-	-	-	05-11	A1	-	-
PL 155	PL 30	01-90	-	G1	-	-	-	-	-	-	-	-	-	-
PL 155	PL 40	01-87	-	E3	-	-	-	-	-	-	-	-	-	-
PL 155	PL 75	01-27	01-28	A1	-	-	-	-	-	-	05-1	A1	07-51	A1
PL 155	PL 150	-	-	-	-	-	-	-	-	-	-	-	07-2	A1
PL 155	PL 155	01-4	01-15	A1	-	-	-	-	-	-	05-12	A1	07-3	A1
PL 155	PL 155	01-41	01-42	A6	-	-	-	-	-	-	-	-	-	-
PL 155	PL 155FL	01-75	01-76	A1	-	-	-	-	-	-	-	-	07-19	A1
PL 155AC	None	-	-	-	03-95	03-100	A2	-	-	-	-	-	07-7	A2
PL 155AC	BJ 159AC	-	-	-	-	-	-	-	-	-	-	-	07-46	A1
PL 155AC	BJ 159ACFL	-	-	-	-	-	-	-	-	-	-	-	07-50	A1
PL 155AC	PL 155AC	01-53	01-54	A1	03-75	03-76	A1	04-86	-	A1	-	-	07-4	A1
PL 155AC	PL 155ACFL	01-61	01-62	A1	-	-	-	-	-	-	-	-	-	-
PL 155AC	UPL 20	-	-	-	-	-	-	04-91	-	E1	-	-	-	-
PL 155ACFL	None	-	-	-	-	-	-	-	-	-	-	-	07-16	A2
PL 155ACFL	PL 155ACFL	01-45	01-46	A1	-	-	-	-	-	-	-	-	07-15	A1
PL 155FL	BJ 79	01-73	01-74	A1	-	-	-	-	-	-	-	-	-	-
PL 155FL	CJ 70	01-128	01-129	A1	-	-	-	-	-	-	-	-	-	-
PL 155FL	PL 155FL	01-63	01-64	A1	-	-	-	-	-	-	-	-	07-18	A1
PL 330	PL 330	-	-	-	03-81	-	C1	-	-	-	-	-	-	-
PL 339	None	-	-	-	-	03-82	X6	-	-	-	-	-	-	-
PL 375	None	-	-	-	-	-	-	-	-	-	-	-	07-21	A2
PL 375	BJ 374	-	-	-	-	-	-	-	-	-	-	-	07-59	A1
PL 375	PL 75	-	-	-	03-86	-	A1	-	-	-	-	-	-	-
PL 375	PL 375	01-67	01-68	A1	03-71	03-72	A1	04-57	04-58	A1	-	-	07-26	A1
PL 375	PL3155	-	-	-	-	-	-	-	-	-	05-22	A1	07-71	A1
PL 455ACPP	PL 75C	-	-	-	-	-	-	-	-	-	-	-	07-77	A1
PL 455ACPP	PL 455ACPP	01-108	01-109	A1	-	-	-	-	-	-	-	-	-	-
PL 455ACPP	PLR 455ACPP	01-112	01-113	A1	-	-	-	-	-	-	-	-	-	-
PL 455ACPS	PL 75C	-	-	-	-	-	-	-	-	-	-	-	07-78	A1
PL 455ACWP	PL 75C	-	-	-	-	-	-	-	-	-	-	-	07-79	A1
PL 455ACWP	PL 455ACWP	01-110	01-111	A1	-	-	-	-	-	-	-	-	-	-
PL 455ACWP	PLR 455ACWP	01-114	01-115	A1	-	-	-	-	-	-	-	-	-	-
PL 455ACWS	PL 75C	-	-	-	-	-	-	-	-	-	-	-	07-80	A1
PL3155	None	01-96	01-97	A3	-	-	-	-	-	-	-	-	-	-
PL3155	BJ3159	-	-	-	-	-	-	-	-	-	05-20	A1	-	-
PL3155	CJ3150	-	-	-	-	-	-	-	-	-	-	-	07-64	A1
PL3155	PL 155	01-77	01-78	A1	-	-	-	-	-	-	-	-	-	-
PL3155	PL3155	01-43	01-44	A1	-	-	-	-	-	-	05-23	A1	07-29	A1
PL3155 Special	CJ3150 Special	-	-	-	-		-	-	-	-	-	-	07-65	A1
PL3155 Special	PL3155 Special	-	-	-	-		-	-	-	-	-	-	07-67	A1
PL3155AC	None	-	-	-	-		-	-	-	-	-	-	07-25	A2
PL3155AC	BJ3159	-	-	-	-		-	-	-	-	-	-	07-69	A1
PLR 75C	BJ 74C	-	-	-	03-105	-	A1	-	-	-	-	-	-	-
PLR 75C	BJ 79C	-	-	-	-		-	-	-	-	-	-	07-73	A1
PLR 75C	PL 75BR	-	-	-	03-103	03-104	A1	-	-	-	-	-	-	-
PLR 75C	PL 75C	-	-	-	-		-	-	-	-	-	-	07-81	A1
PLR 75C	PLR 75C	01-116	01-117	A1	03-106	-	A1	-	-	-	-	-	07-72	A1
SPC8P-201	None	-	-	-	-		-	-	-	-	-	-	07-23	A2
SPC8P-201	SPC8S-201	-	-	-	-		-	-	-	-	-	-	07-44	A1
SPC8S-201	None	-	-	-	-		-	-	-	-	-	-	07-24	A2
SPC8S-201	SPC8S-201	-	-	-	-		-	-	-	-	-	-	07-89	A1
UCJ 20	BJ 24	-	-	-	-	-	-	04-75	04-76	E3	-	-	-	-
UPL 20	BJ 24	-	-	-	-	-	-	04-77	04-78	E3	-	-	-	-
UPL 20	PL 75	-	-	-	03-55	03-56	E1	-	-	-	-	-	-	-
UPL 20	PL 75	-	-	-	03-57	03-58	E4	-	-	-	-	-	-	-
UPL 95	PL 20	-	-	-	-	-	-	04-51	04-52	X1	-	-	-	-

Introduction page 63, **Ordering instructions** page 66, **Circuit schematics** page 67

TROMPETER ELECTRONICS INC VISA MasterCard (818) 707-2020 Fax (818) 706-1040

General Specifications

Performance, Material, Plating Specifications

General Product Performance Specifications:

	Connectors					Patching		
	BNC	TNC	70 Series	150 Series	450 Series	WE Standard	WE Miniature	RCA Standard
Frequency Range	0-4 GHz	0-11 GHz	0-500 MHz	0-500 MHz	0-2 MHz	0-1 GHz	0-1 GHz	0-200 MHz
VSWR	1.30 Max.		Not Rated			1.04 @ 75 MHz 1.12 @ 100 MHz 1.18 @ 500 MHz	1.06 Max. - -	1.05 @ 50 MHz 1.09 @ 100 MHz 1.33 @ 500 MHz
Voltage Rating	500 VRMS @ Sea Level	500 VRMS @ Sea Level	400 VRMS @ Sea Level	250 VRMS @ Sea Level	150 VRMS @ Sea Level	500 VRMS @ Sea Level	250 VRMS @ Sea Level	500 VRMS @ Sea Level
	125 VRMS @ 70,000 ft.	125 VRMS @ 70,000 ft.	100 VRMS @ 70,000 ft.	62.5 VRMS @ 70,000 ft.	Not Rated	Not Rated		
Temperature Range	-65°C to 165°C					-65°C to165°C		

TFS-1: Finish Specifications

TFS-1A

.000100-.000300 max thk Bright Nickel
per QQ-N-290, Class1, Form SB
(over) **.000080-.000150 thk Bright Copper**
per MIL-C-14550
(over) **.000500 max Electroless Nickel**
per MIL-C-26074A, Class 1 (On aluminum only)

TFS-1B

.000020-.000030 thk Bright Gold[2]
per MIL-G-45204, Type II, Grade C, Class[2]
(over) **.000050-.000180 thk Bright Nickel**[3]
per QQ-N-290, Class1
(over) **.000080-.000150 thk Bright Copper**[3]
per MIL-C-14550

TFS-1D

.000100-.000120 thk Electroless Nickel
per MIL-C-20674A, Class 1
(over) **.000080-.000150 thk Bright Copper**
per MIL-C-14550

TFS-E

.000200-.000300 thk Bright Electro Tin
per MIL-T-10727, Type 1 and solder test
per Para. 4.6.3.1

TFS-1H

.000200-.000300 thk Cadmium plate
per QQ-P-416, Type II, Class 3

TFS-1M [4]

.000200-.000300 thk Silver
per QQ-S-365, Type II (Semi-bright) or
III (Bright), Grade A (Chromate post treatment)
(over) **.000080-.000150 thk Bright Copper**
per MIL-C-14550

TFS-1N[5]

.000300-.000500 thk Cadmium plate
per QQ-P-416, Class 2, Type II, Olive Drab
(over).**000500-.000550 thk Electroless Nickel plate**
per MIL-C-26074, Class I, Grade B

TFS-1P

1 **.000100 Min.-.000120 Max. thk Bright Gold**
per Mil-G-45204, Type II, Grade C, Class 2

2 **.000500 Min.-.000700 Max. thk Bright Gold**
per Mil-G-45204, Type II, Grade C, Class 1

3 **.000200 Min.-.000300 Max. thk Bright Gold**
per Mil-G-45204, Type II, Grade C, Class 00

(over).**000200 Min.-.000300 Max. thk Bright Copper**
per Mil-C-14550[3]

TFS-1T[5]

.000050 -.000100 Bright Tin
per MIL-T-10727, Type I
(over) **.000150-.000200 Sulfamate Nickel**
per MIL-P-27418
(over) **.000100-.000150 Copper**
per MIL-C-14550, Class 4

TFS-1U[5]

.000200-.000300 thk Sulfamate Nickel
per MIL-P-27418
(over) **.000080-.000150 thk Copper**
per MIL-C-14550, Class 4

Materials & Specifications

Material	Alloy or Type	FED/MIL Spec.	Usage
ABS	Moldings Type 2	MIL-STD-1803 L-P-1883B	Looping plug handles
Acetal	Dupont Delrin	L-P-392	Insulators, cases
Aluminum	2024-T351	QQ-A255/6	Backbars, cases
	6061-T6	QQ-A200/8	Stiffener bars
	6061-T6	QQ-A250/11	Patch panels
	6061-T6511	QQ-A200/8	Backbars, cases
Beryllium Copper	172 (Bar)	ATSM-B194	Contact & crescent springs
	173 (Flat)	ASTM-B196 &197	Contact sockets, fingersprings
Brass	6	ATSM-B36	Ground lugs
	360	ATSM-B16	Connector bodies, coupling sleeves, clamp nuts, hex mtg. nuts, ctr. contact pins, cases.
Fluorinated Ethylene Propylene	(FEP)	L-P-389A	Insulators
Nylon	6/6	L-P-410A	Insulating bushings
Perfluoroalkoxy	(PFA)	ASTM-D3307	Cable jackets
Phenolic	XXX	L-P-513 PBE	Patch panels, backbars
Phosphor Bronze	ATSM-B139	QQ-B-750	Contact springs, lockwashers
Polytetrafluoro-ethylene	(PTFE)	ASTM-D1457-83	Dielectrics, insulators
Rubber	Silicone	ZZ-R-765	Gaskets, O-rings, sealing members
Solder	Sn60, 62, or 63	QQ-S-571	
Steel	C1010-1018	QQ-S-636	MPN cases
	Music Wire	QQ-W-470	Tension springs
Corrosion Resistant Steel	303	QQ-S-763	Connector bodies, coupling sleeves, hex mtg. nuts
	302	QQ-S-766	Designation strips
	301	ASTM484, AS82	
Thermo-plastic Polyester	Glass Filled	MIL-M-24519	Heat resistant molded insulators
Vinyl	Clear Rigid-Self ext.	L-P-535	Designation strip window
	Opaque Rigid-Self ext.	L-P-535	Designation strip marking strip
Zinc	Eastern Alloy #7	QQ-Z-363	Selected non-functional parts

TFS-1V[3]

.000200-.000300 thk Silver
per QQ-S-365, Type I (Matte), Grade A
(over) **.000080-.000150 thk Bright Copper**
per MIL-C-14550

TFS-1X

.000200-.000300 thk Nickel
per QQ-N-290, Class 1

TFS-1 Specification Notes:

2. All connector center contacts **.000050 -.000070 thk Bright Gold**, Type II, Grade C,Class 1
3. Thickness in accordance with **MIL-G-45204B, Para 6.3 "Strikes and Underplating"**
4. Per **MIL-C-39012C, Amendment 1, Par 1.2.3.**
5. Meets **MIL-STD-1344, "500-hour Salt Spray"** requirement

Connector/Cable Tables

Introduction: Finding /ordering cable connectors

The following suggestions will help you find the right connector for your particular need.

All Standard Trompeter cable connectors which require a **cable designation** and end with a ⚠ which must be **replaced by** the appropriate **Cable Group#.**

We recommend that you spend sufficient time to acquaint yourself with our catalog, and welcome any comments or suggestions which will help us to provide you with a more useful catalog.

Please contact your local Rep (page 94-95) or the Factory if you have any questions.

Finding the right connector for your application:

- Use the **Table of Contents** to **locate** your connector **by standard type, size & impedance** ..... Page 1
  The catalog is divided into **connector groups** (e.g. Coax Patching, Twinax/Triax Connectors, etc.).
  Connectors are **grouped by type, size & impedance** (e.g. 50Ω Miniature Coax Patching, 75Ω BNC, etc.).
- The **Quick Reference Product Guide** can help you **locate** a connector **by product type** ..... Page 2
  (e.g. Bulkhead jack, RFI cap, etc.).
- Use the general **application notes** for **Mil/Aero, Broadcast and Telecom** applications ..... Pages 4 & 5
  We have included **page references** for **products** in this catalog **for each application**.
- To find a **standard Trompeter part,** look up the part number in the **Part# Index.** ..... Pages 88-91
  All Trompeter connectors are clearly marked by a **Trompeter part number.**
  Part numbers that are a series of hyphenated numbers (e.g. **105-1374**) are generally specials.
  Only a few specials are listed in this catalog. Contact your local Rep (page 94-96) or the Factory for more information.

  Note: All part numbers are prefixed by "**TEI 14949**" which is our Federal ID (Cage Code) number.

Finding the Cable Group Number for your specific cable:

Trompeter provides cable connectors with configurations designed to provide tough, durable terminations on specific cables. Cable connector **part numbers reference** a **specific Cable Group#** for a **specific cable type, model, and /or manufacturer.** This insures that the connector fits your cable and provides the toughest termination available in the industry.

- If you have a **Trompeter** connector, you can determine the **Cable Group#** by the **last hyphenated suffix** (usually 1-3 digits) in the part number. Example: For part number **PL20-1**, the **Cable Group#** is **1.**
- If you know the **type, size** &/or **model** and the **manufacturer** of your cable, you can **locate** the cable's assigned **Cable Group#** using the **Cable Manufacturer's & Cable Group# Tables.** ..... Pages 71-75

  All Trompeter connectors are clearly marked by a **Trompeter part number.**
  Part numbers that are a series of hyphenated numbers (e.g. **105-1374**) are generally specials.
  Only a few specials are listed in this catalog. Contact your local Rep (page 94-96) or the Factory for more information.
- Cables **indexed by "• "** in the compatibility tables generally require a special connector.
  It is best to **contact your local Rep** (pages 94-96) or the Factory for more information.

Checking the availability of connectors for your specific cable:

- After determining which connector you wish to use and the **Cable Group#** for your cable, check the availability of the connector for the cable using the **Connector/Cable Compatibility Tables** ..... Pages 76-77
- If you cannot satisfy your connector requirement with the standard cable group# in this catalog, contact your local Trompeter Rep, or call the Factory ..... Pages 94-96
- * If you have a special requirement, then fill out and fax a **New Product Request Form** ..... Page 93
  outlining your requirements.

Important Note: Cables of the **same type** and **specification** may **vary** from manufacturer to manufacturer.
Always verify the **Cable Group#** for your **connector type and manufacturer.**
When replacing existing Trompeter parts, always verify that the right connector is being used.
If you do not see your cable listed, contact your local **Trompeter Rep** or call the factory.

For the name, address, phone and fax number of your local Trompeter Representative see pages 94-96.

Cable Manufacturer & Cable Group# Tables

Finding /ordering cable connectors page 70

Compatibility Tables pages 76-77

Manufacturer	Designation	Cable Group Wrench	Cable Group Tool	Cable Type	Ω	Jacket O.D.	Cond. Dia.	Notes Pg 75
ACI	3-4112AT	•	-	TR	-	-	-	
ACOME	N1472A	-	•	C	-	-	-	
Alcatel	L910/34	•	•	C	-	-	-	
Alpha	7632	•	-	TW				
	1450/16	•	-	TW	-	-	-	
	2818	8	-	TW	-	-	-	
	2827/2	29	207	TW	DATA	.120	.031	A
	2834	•	-	C	-	-	-	
	2834/2	45	-	TW	DATA	.137	.032	
	9158	1	011	C	-	-	-	
	9180	4	008	C	-	-	-	
	9187A	36	007	C	75	.105	.010	
	9804	41	-	C	75	.275	.040	
	9807	51	-	C	-	-	-	
	9814C	-	213	TW	-	-	-	
	9818	8	-	TW	-	-	-	
	9820	•	-	TR	124	.440	.051	
	9851C	•	-	C	-	-	-	
	9851F	50	-	C	-	-	-	
	9858	-	011	C	-	-	-	
	9859	-	•	C	-	-	-	P
Amdahl	215-9000-000	5A	-	C	100	.075	.012	
Ampex	616-569	36	007	C	75	.110	.015	
Amphenol	21-204	42	-	TR	-	-	-	
	21-597X1	•	-	C	-	-	-	
	82-5588	8	-	TW	100	.330	.039	
Amphenol Canada	21-1060	6	016	C	-	-	-	
	621-446-795	6	-	C	-	-	-	
Anaconda	2SWU-1	•	-	TR	-	-	-	
Astro Ind.	1414	33	-	TR	-	-	-	
Astrolab	32000	21	-	C	-	-	-	
AT&T(W.E.Co)	16PEVL	12	016	TW	124	.460	.051	
	724	6	016	C	75	.304	.033	
	728	6	016	C	75	.304	.033	C
	730A	2B	015	C	75	.255	.025	C
	731	2	015	C	75	.248	.023	C
	734A	63	025	C	75	.236	.031	V,W
	735A	-	026	C	75	.125	.016	C
	754E	10	-	TW	124	.420	.040	
	760A	11	-	TW	124	.308	.025	
	761A	30	-	TW	124	.215	.021	
	KS-19224L2	-	027	C	75	.116	.011	W
Belden	1162A	8	-	TW	-	-	-	
	1163A	6	016	C	-	-	-	
	1163A CNFRMBL 085	6	-	C	75	.305	.031	
	1164A RGB	-	009	C	-	-	-	
	1167A RGBS	•	-	C	-	-	-	X
	1168A CNFRMBL 141	141	-	C	50	.141	.037	T
	1187A	2B	•	C				
	1505A	-	014	C				
	1506A	•	-	C				
	1263A	21	-	C	-	-	-	
	8208	7	-	TW	-	-	-	
	8212	2	014	C	75	.242	.032	C
	8213	6A	-	C	75	.405	.064	D
	8214	•	-	C	-	-	-	
	8216, RG174 type	5	003	C	50	.100	.019	
	8218	4	009	C	75	.150	.017	
	8219	1	-	C	50	.195	.037	
	8221	2	013	C	80	.242	.025	C
	8227	8	-	TW	100	.330	.039	
	8228	34	-	C	75	.242	.040	
	8232	13A	-	TR	75	.315	.032	
	8233	14	-	TR	75	.475	.064	
	8237	6A	-	C	52	.405	.085	
	8240	1	-	C	53	.195	.032	
	8241	2	013	C	73	.242	.025	C
	8259	1	-	C	50	.195	.036	
	8261	6A	-	C	75	.405	.049	
	8263, RG59B/U type	2	013	C	75	.242	.023	
	8279	2A	019	C	75	.220	.025	
	8281	6	016	C	75	.304	.032	C
	8281B	6	016	C				
	8281F	-	016	C				
	8422	9	-	TW	DATA	.231	.025	
	8441	30	-	TW	DATA	.210	.025	
	8451	-	210	TW	DATA	.140	.031	
	8761	28	-	Q	-	-	-	
	8946	•	-	TR	-	-	-	
	9054	2	-	C	-	-	-	
	9060	41	-	C	-	-	-	
	9068	4	009	C	-	-	-	
	9104	2	-	C	75	.243	.032	
	9112	2	-	C	75	.242	.032	
	9114	41	-	C	75	.275	.040	
	9116	41	-	C	-	-	-	
	9141 (WE 724)	6	016	C	75	.304	.033	C

Manufacturer	Designation	Cable Group Wrench	Cable Group Tool	Cable Type	Ω	Jacket O.D.	Cond. Dia.	Notes Pg 75
Belden	9145, RG59/U type	2A	014	C	75	.242	.032	
	9146	41	-	C	-	-	-	
	9167	2	-	C	-	-	-	
	9168	41	-	C	-	-	-	
	9170	4	-	C	-	-	-	
	9171	2	-	C	-	-	-	
	9192	•	-	TR	-	-	-	
	9207 (VR15662)	8	-	TW	100	.330	.039	
	9209	2A	013	C	75	.220	.022	
	9221	5	-	C	75	.102	.012	
	9222	7	-	TR	50	.242	.039	J
	9225	6B	-	C	50	.425	.089	
	9226	3	-	C	50	.212	.035	
	9228, RG62A/U type	2	-	C	93	.242	.025	
	9231 (WE 729)	6	016	C	75	.304	.032	C
	9232	•	-	TR	-	-	-	
	9234	2	014	C	75	.242	.032	
	9239	5	003	C				
	9242	2	-	C	80	.242	.025	
	9243, RG 59DS type	2	014	C	75	.242	.032	"C,J"
	9248	41	020	C	75	.270	.036	
	9250, RG 22B type	10	-	TW	95	.420	.046	
	9252	4	-	C	50	.160	.030	
	9254	4	-	C	-	-	-	
	9258	•	-	C	-	-	-	
	9259, RG 59/U type	2	-	C	75	.242	.031	
	9264	•	-	C	-	-	-	
	9265 CX Side-RG59/U	2	013	C	75	.242	.031	
	9266	•	•	C	-	-	-	
	9267	•	•	TR	-	-	-	
	9268	2B	018	C	93	.260	.025	C
	9269, RG62A/U type	2	013	C	93	.242	.025	
	9271	-	•	TW	-	-	-	
	9272	9	213	TW	78	.242	.037	
	9273, RG223 type 3	012	C	50	.216	.035		
	9274, RG59/U type	2	-	C	75	.242	.032	
	9283	41	-	C	-	-	-	
	9284	41	-	C	75	.275	.040	
	9290	-	•	C	-	-	-	
	9291	2	013	C	-	-	-	
	9292	6A	-	C	75	.405	.064	D
	9301	2	-	C	75	.242	.032	
	9302	086	-	C				
	9307	086	-	C	50	.085	.011	T
	9308	086	-	C	75	.085	.020	T
	9311	1	-	C	-	-	-	
	9386	41	-	C	75	.275	.040	
	9414	•	-	C	-	-	-	
	9448	2A	-	C	-	-	-	
	9463	9	-	TW	-	-	-	
	9555 (Dual coax)	2	-	C	75	.242	.023	
	9587	41	-	C	-	-	-	
	9589	2A	-	C	75	.242	.032	B
	9592	2	-	C	75	.242	.032	B
	9659	2	014	C	-	-	-	
	9688	•	-	TR	-	-	-	
	9729	8	-	TW	-	-	-	
	9738	8	-	TW	-	-	-	
	9815	8	-	TW	-	-	-	
	9850	6B	-	C	75	.425	.048	
	9859	9	213	TW	78	.235	.038	
	9860	46	-	TW	124	.440	.051	
	9861, RG212 type	6E	-	C	50	.332	.057	
	9880	48	-	C	50	.405	.086	
	9888	14A	-	TR	50	.480	.108	
	9907	1	011	C	-	-	-	
	9913	•	-	C	-	-	-	
	9914	•	-	C	-	-	-	
	81553	47	201	TW	78	.129	.024	P
	82120	34	-	C	-	-	-	
	82240, RG58/U	-	•	C				
	82241, RG59/U	-	•	C				
	82248	-	•	C				
	83264	5	004	C	-	-	-	
	83265	5A	001	C	-	-	-	
	83266	22	008	C	-	-	-	
	83267	36	-	C	-	-	-	
	83269	-	003	C				
	83310	29	207	TW	DATA	.120	.031	A
	83318	29	204	TW	DATA	.132	.025	A
	83552	35	-	CTW	-	-	-	
	86262, RG 62/U type	2A	019	C	75	.220	.025	P
	87108	2A	023	C	-	-	-	
	87120, RG 6/U type	52	024	C	75	.256	.040	P
	88232	•	-	TW	-	-	-	
	88240, RG 58/U type	1	021	C	50	.178	.037	P
	88241 (BRN) RG 59/U	2A	022	C	75	.200	.023	P

Cable Manufacturer & Cable Group# Tables

Finding /ordering cable connectors page 70 — *Compatibility Tables* pages 76-77

Manufacturer	Designation	Cable Group Wrench	Cable Group Tool	Cable Type	Ω	Jacket O.D.	Cond. Dia.	Notes Pg 75
Belden	88241 (GRY) RG 59/U	2A	022	C	75	.193	.023	P
	88281	51	016	C	75	.304	.032	P
	88641	23	-	TR	-	-	-	
	89108, RG 59/U type	2A	023	C	75	.218	.032	P
	89120	52	024	C	75	.253	.040	P
	89162	2A	019	C	-	-	-	
	89207	54	-	TW	100	.282	.039	P
	89248	-	•	C				
	89259, RG 59/U type	2A	22	C	-	.218	.030	X
	89269	2A	022	C	93	.222	.025	N,P
	89272	55	-	TW	78	.220	.039	P
	89555 (Double)	53	019	C	75	.230	.023	P
	89880 Ethernet	50	-	C	50	.375	.086	L,P
	89907	21	•	C	-	-	-	
	AWMFR-1	•	-	C	-	-	-	
	I20423	2	-	C	-	-	-	
	M9100	2	-	C	-	-	-	
	YM-15338	1	016	C	52	.190	.036	
	YM-23930	-	014	C	-	-	-	
	YR-14910	29	-	TW	-	-	-	
	YR-15161	29	-	TW	-	-	-	
	YR-19218	29	-	TW	-	-	-	
	YR-19641	•	-	C	-	-	-	
	YR-19747	•	-	C	-	-	-	
	YR-21153	•	•	C	-	-	-	
	YR-23023A	-	028	C	-	-	-	
	YR-23922	-	•	C				
	YQ-11483	5	-	C	-	-	-	
Bell Labs	G243630-1	4	-	C	50	.155	.010	
	G243630-2	4	-	C	50	.155	.010	
	WP19681-L-2	5	-	C	-	-	-	
BellCore	RG6 (type)	-	022	C	-	-	-	
Berk-Tek	640114 (DC58-NET)	21	-	C	-	-	-	
	BTDC-59-TT	2	022	C	-	-	-	
	BTDC-59D-TT	2A	-	C	75	.242	.023	
	BTX-0113-100175	43	-	TR	100	.175	.011	
BICC	2003	•	-	C	-	-	-	
BIW (Nuclear GR)	11735-C-G24 (RG 59)	34	-	C	75	.242	.025	
Boeing	37-112-1	32	-	TR	—			C
	380-10045	60	305	TR	95	.189	.012	
Boston Insulated	11735-C-G24	34	-	C	-	-	-	
Brand-Rex	71124Y18978	•	-	TW	-	-	-	
	736211	•	-	TW	-	-	-	
	A- 779	5	-	C	75	.090	.010	
	B- 749	44	-	C	75	.080	.012	
	CS 75146	•	-	C	-	-	-	
	LS2SL	•	-	TW	-	-	-	
	LS2SWU-1-M24643/33	-	•	TW				
	T- 378	6	016	C	75	.312	.031	C
	T- 385	44	-	C	75	.080	.012	C
	T- 546	•	-	TR	-	-	-	
	T- 2948	26	-	TR	75	.165	.012	
	T-10971	24	221	TW	77	.161	.024	J
	T-13295	42	-	TR	-	-	-	
British Tel	BT2003	•	-	C	-	-	-	
Calmont	4141	24	211	TW	160	.168	.012	
Canare	301	-	009	C	-	-	-	
	3C2VS	•	-	C	-	-	-	
	5C2VS	6	016	C	75	.292	.031	
	LV61S	2	013	C	75	.242	.023	
	LV77	6	-	C	DATA	.304	.032	
	LV77S	-	016	C	-	-	-	
Carol	C1103 RG59/U	2	013	C	-	-	-	
	C1163 RG62/U	2	013	C	-	-	-	
CASCO	2C227NPCSN	45	-	TW	-	-	-	
CDC	15013640-42	•	-	C	-	-	-	
	YR-20582	•	-	C	-	-	-	
CES	1805-0229 E39829	-	-	-	-	-	-	X
Champlain	51-04417 (RG 62)	2	-	C	98	.232	-	P
	51-04423	•	-	TR	-	-	-	
	51-04496	47	-	TW	-	-	-	
	51-05091	58	217	Q	77	.145	.025	S
	5M2022-001	-	206	TW	-	-	-	
	5M2022-003	•	-	TW	-	-	-	
	81-00440	•	-	TW	-	-	-	
	81-00486	•	-	TR	-	-	-	
	81-00487	-	007	C	-	-	-	
	81-00487	-	007	C	-	-	-	
	81-00558	•	-	TR	-	-	-	
	RG 62 TYPE	2	013	C	93	.242	-	P
	ST5M1212-002	29	202	TW	70	.150	.022	
CoaxCO	1102	23	-	TR	40	.140	.020	
Comm/Scope	0222	4	•	C	75	.155	.020	
	0232	4	•	C	75	.155	.020	
	0259	•	-	C	75	.285	.040	X
	2041	-	-	C	75	.200	.022	X
	2041K	-	-	C	75	.200	.022	X

Manufacturer	Designation	Cable Group Wrench	Cable Group Tool	Cable Type	Ω	Jacket O.D.	Cond. Dia.	Notes Pg 75
Comm/Scope	2045	-	-	C	75	.204	.031	X
	2045K	-	-	C	75	.204	.031	X
	2068K	-	025	C				
	2100	-	-	C	53	.170	.031	X
	2100K	-	-	C	53	.170	.031	X
	2250	-	-	C	93	.207	.025	X
	2250K	-	-	C	93	.207	.025	X
	2251	-	-	C	93	.207	.025	X
	2251K	-	-	C	93	.207	.025	X
	2275	-	-	C	75	.251	.040	X
	2275K	-	024	C	75	.251	.040	
	2279	-	024	C	75	.240	.040	
	2279K	-	024	C	75	.240	.040	
	2280	-	-	C	50	.375	.086	X
	2280K	-	-	C	50	.366	.086	X
	2290	-	-	C	100	.271	.031	X
	2290K	-	-	C	100	.271	.031	X
	2525	-	-	C	75	.290	.031	X
	2525K	-	-	C	75	.290	.031	X
	3130	-	-	C	53	.195	.031	X
	3135	-	-	C	50	.195	.031	X
	3139	-	-	C	50	.195	.031	X
	3250	-	-	C	50	.405	.086	X
	4012	-	-	TW	78	.210	.031	X
	4012K	-	-	TW	78	.210	.031	X
	5535	-	026	C	75	.125	.016	
	5550	-	-	C	75	.242	.025	X
	5552	-	-	C	75	.242	.031	X
	5555	-	-	C	80	.242	.025	X
	5560	-	-	C	73	.242	.025	X
	5563	2	-	C				
	5565	-	-	C	75	.242	.031	X
	5567	-	-	C	75	.242	.031	X
	5568	63	025	C	75	.236	.031	
	5572	-	-	C	75	.242	.031	X
	5715	41	020	C	75	.272	.040	
	5725	-	-	C	75	.272	.040	X
	5901	•	-	C				
	5903	-	-	C	75	.405	.064	X
	5908	6A	-	C	75	.405	.040	
	5909	-	-	C	75	.405	.040	X
	5940	6A	-	C	75	.405	.064	
	6200	-	-	C	93	.242	.025	X
	6605	-	-	C	93	.260	.025	X
	750C	-	-	C	75	.304	.031	X
	7510	-	016	C	75	.304	.031	
	7723	-	-	C	50	.212	.036	X
	7810	-	-	TR	75	.325	.031	X
	7815	-	-	TR	.50	.480	.090	X
	7820	-	-	TR	75	.475	.064	X
	7901	-	-	TW	100	.325	.031	X
	9012	-	-	TW	78	.242	.025	X
	F-59	•	•	C				
Consolidated	4407	•	-	C	-	-	-	
	4460	•	-	TR	-	-	-	
	4463 (RG58)	42	-	TR	50	.285	.036	
	4481	•	-	TR	-	-	-	
	SB36456	•	-	TR	-	-	-	
Daburn	D-43M	25	-	TW	124	.265	.019	
DEC	FEP 17-01246-01/02/03	3	011	C	-	-	-	
	FEP17-0246-01/02	3	011	C	-	-	-	
	PVC 17-01248-01/02/03	3	011	C	-	-	-	
DOD	DOD-DNA-RF-21	9	-	TW	-	-	-	
Ericson	TZC 75005	-	•	C	-	-	-	
	TZC-75005	•	•	C	-	-	-	
Essex	1000	6A	-	C	50	.405	.085	
	2001	7	-	TR	-	-	-	
	2001	7	-	TR	-	-	-	
	21-004	6A	-	C	50	.405	.085	
	21-025	2	-	C	73	.242	.025	
	21-204	42	-	TR	50	.285	.036	
	21-529	4	-	TR	75	.460	.049	
	21-537	1	011	C	50	.195	.036	
	21-541	2	013	C	73	.242	.025	
	21-583	5	-	TR	52	.490	.085	
	21-597	4	009	C	75	.150	.017	
	21-780	6B	-	C	50	.420	.087	
	21-795	2	-	C	75	.242	.023	
	21-950	6	-	TW	124	.615	.051	
	421-098	22	008	C	95	.145	.012	
	421-111	4	008	C	95	.155	.012	
	421-176	1	-	C	50	.195	.039	
	621-100	6A	-	C	75	.405	.064	D
	621-106	7	-	TR	72	.242	.025	
	621-243	41	-	C	75	.270	.040	
	621-284	41	-	C	75	.270	.040	
	621-715	1	-	C	75	.195	.025	

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Extron	22-021-01	5	003	C	-	-	-	
Fannon	003-R003	37	-	C	75	.160	.020	
Felton & Guileaume	1.0S/4.5S	•	-	TW	-	-	-	
	1.4S/6.6S	•	-	TR	-	-	-	
Fileca	F1703-51	-	217	C	-	-	-	
	F1709-46	•	-	C	-	-	-	
	F2703-51	-	217	TW	-	-	-	
Filotex	63247	-	212	TW	125	.179	.025	
	EDE62385	-	009	C	-	-	-	
	L910-42	37	009	C				
GE	5930273-1	•	-	TW	-	-	-	
	7531352P1	31	-	C	-	-	-	
General	2SWU-1	•	-	TW	-	-	-	
	T-43	10	-	TW	124	.420	.040	
	T-43M	25	-	TW	124	.265	.019	
	V1-AL	12	-	TW	124	.460	.051	
	V1-DSAL	28	-	Q	124	.530	.050	
General	V2-AL	•	-	TW	-	-	-	
General Instrument	0232	4	-	C	-	-	-	
	2104	•	•	C	-	-	-	
General Wire Prods	E102194	-	214	TW	-	-	-	
GEPCO	7174	-	-	C	50	.101	.019	X
	RGBS809 (3 coax)	-	009	C	75	.150	.021	X
	RGBS809 (4 coax)	-	009	C	75	.150	.021	
	RGBS809 (5 coax)	-	009	C	75	.150	.021	
	V618J59	-	013	C	75	.242	.023	
	V618M59	-	013	C	75	.242	.023	
	V618M59TK	-	•	C	75	.200	.023	X
	VDFM809	-	009	C	75	.150	.021	
	VDFM809 (2 coax)	-	-	C	75	.150	021	X
	VE61859	-	014	C	75	242	030	
	VFM809	-	009	C	75	.150	021	
	VP6000	-	016	C	75	.304	.032	
	VP618PE	-	016	C	75	.304	.032	
	VP618PVC	-	016	C	75	.304	.032	
	VP618TK	-	•	C	75	278	032	X
	VPM1000	-	013	C	75	242	023	
	VPM2000	-	014	C	75	242	032	
	VPM2000TK	-	•	C	75	.200	.032	X
	VPM618	-	022	C	75	.220	.027	
	VSM618	-	009	C	75	.150	.017	
Germany	GEEIA	25	-	TW	124	.265	.019	
Gore	05202 (UK)	-	201	TW	-	-	-	
	190	•	-	C	-	-	-	
	C06C032	44	-	C	75	.075	.019	
	CXA-8206	•	-	TW	-	-	-	
	CXN-1223	•	-	TW	-	-	-	
	CXN-1267	•	-	TR	-	-	-	
	CXN-1318	•	-	C	-	-	-	
	CXN-1362	36	-	C	50	.101	.031	
	CXN-1363A	21	-	C	50	.155	.050	
	CXN-1366	•	-	C	-	-	-	
	CXN-1384	•	-	C	-	-	-	
	CXN-1426A	-	•	C	-	-	-	
	CXN-1428A	•	-	C	-	-	-	
	CXN-1519	•	-	C	-	-	-	
	CXN-1549	•	-	TR	-	-	-	
	CXN-1583	•	-	C	-	-	-	
	CXN-1666	•	-	TR	-	-	-	
	CXN-1701A	•	-	C	-	-	-	
	CXN-1702A	•	-	C	-	-	-	
	CXN-1722	•	-	C	-	-	-	
	CXN-1735	•	-	TR	-	-	-	
	CXN-1851	•	-	C	-	-	-	
	CXN-1920	•	-	TW	-	-	-	
	CXN-2223	24	-	TW	-	-	-	
	CXN-2268	-	204	TW				
	CXN-2280A	•	-	C	50	-	-	
	CXN-2317	•	-	C	50	-	-	
	DXSN-1577	•	-	TW	-	-	-	
	GSCI-620	•	-	TW	50	-	-	
	SR-AE-0004/1	•	-	TW	50	-	-	
Grumman	GC875GBI	57	302	TR	50	.164	.033	A
	GC875GC1	9/13/92	301	TR	95	.164	.012	A
	GC875GP1	31	006	C	50	.128	.020	
	GC875LNI	59	-	TW	75	.167	.020	
	GC875MS1-22	-	304	TR	N/A	N/A	N/A	
	GC875PD1	5A	-	C	50	.063	.012	
	GC875RM1	45	204	TW	78	.144	.025	
	GC875RR1	33	220	Q	77	.179	.025	J
	GC875TM24H	58	217	Q	77	.160	.025	S
Habia	31482-009-02	47	-	TW	-	-	-	
	C000216	-	009	C	-	-	-	
	R66-DGC	-	•	C	-	-	-	
	RG62F(CB)F	-	013	C	-	-	-	P
Harbour	11-0007	31	-	C	50	.128	.020	

Manufacturer	Designation	Cable Group Wrench	Cable Group Tool	Cable Type	Ω	Jacket O.D.	Cond. Dia.	Notes Pg 75
Harbour	11-0007	5	-	C	-	-	-	
	U062FRG 2222-ITS9-NAT	2A	-	C	-	-	-	
Harris	SM-A-975015	•	-	TR	-	-	-	
Haveg Ind	51-04416	-	223	TW	68	.104	.019	
	51-04423	•	-	TR	-	-	-	
Hewlett Packard	8120-0049	4	-	C	DATA	.155	.010	
	8120-0102	5	-	C	-	-	-	
	8120-0789	5B	-	C	50	.110	.015	
	8120-1105	5B	002	C	50	.110	.015	
	8120-1252	5B	-	C	-	-	-	
	8120-1289	2B	015	C	75	.255	.025	
	8120-1380	5B	-	C	-	-	-	
	8120-9026	5B	-	C	50	.110	.015	
HiTemp	117P80660	50	-	C	50	.375	.086	
	CEO5900	-	013	C	75	.210	.025	"A,P"
	RG62 A/U	•	-	C	-	-	-	
	SP50-738CWSSTJ	5A	-	C	50	.085	.012	P
Hoei Snagyo	3C2V	•	016	C	-	-	-	
	5C2V	•	016	C	-	-	-	
Hughes	710855-35	•	TR		-	-	-	
	710922-13	•	-	TW		-	-	-
	HMS-1480/2	•	-	TW		-	-	-
	HMS2-1149/2	•	-	TW		-	-	-
	HMS2-1149/27	•	-	TW	-	-	-	X
	HMS2-1149/28	•		-Q		-	-	-
	HMS2-1149/75	•	-	TR		-	-	-
	HMS2-1149/76	•	-	TW		-	-	-
	HMS2-1149/78	-	223	TW	68	104	019	
IBM	010-7362061/4885844	-		TW	-			
	4885584	022	C	93	222	025	R	
	7362211	8	-	TW	100	330	039	
Insulated Wire Corp	101	5	-	C				
	175	•	-	C				
Intercomp	1805-0199	•	-	TW				
ITT	14397	32	-	TR				
Judd Wire Inc.	SS502401	5	003	C				
Keithley	SC-22	23	-	TR	40	140	020	
	SC-103	•	-	TW				
	SC-22	23	-	TR				
Kyle	09-40312	•	-	TR				
Leoni	TZC75005	•	-	C				
Lockheed	ABA	29	206	TW	DATA	120	025	A
Lynn Cable	RGB307/U	•	-	C				
M/A-Com	2250-E82832	53	022	C				
	2279	•	-	C				
	7810	13	-	TR				
Madison	52514F	•	-	C				
	E47331	•	-	TR				
Malco	1263-3301	•	-	C				
	293-39802-0000	-	•	C				
	293-39804-0000	-	305	TR				
	293-3922-0000	•	-	TR				
Manhattan	4-BTDC-62-TT	•	-	C				
	M1112	•	-	TW				
	M4207	6A	-	C	75	405	048	
	M4216	2B	013	C	93	260	025	
	M4227	9	213	TW				
	M4772	•	-	TW				
	RG59, 2 CLP type	-	•	C				
Martin Marietta	EG3722GS29	•	-	TW				
	STME637-2	-	206	TW				
Maxbrand	PLENECON	2A	-	C				
	RG58/U	1	021	C				
McBride	CCE597X	•	-	TR				
McDonnell Douglas	5M2022-001	-	206	TW				
	5M2022-003	-	204	TW				
	5M2142-001	•	-	TR				
	5M2397-001	•	-	TR				
	5M2397-002	23	303	TR				
	ST5M1212-003	•	-	TW				
	ST5M1284-001	•	-	TR				
	ST5M1323	•	-	TR				
Mercury	DOD/DNA RF21	-	214	TW				
Microdot	202-3804	•	-	C				
	202-3808	•	-	TW				
	202-3853-009	29	-	TW				
	202-3927	27	208	TW	125	110	011	
	202-3932	•	•	TW				
	202-3934	24	211	TW	160	168	012	
	202-3942	27	209	TW	125	120	012	
	250-3833	47	-	TW				
	250-3834	5A	-	C	50	075	012	
	250-3836	•	-	TW				
	250-3884	23	-	TR	50	140	012	
	250-3902	•	-	C				
	250-3908	•	-	C				

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Microdot	250-3937-0000	•	-	TR				
	250-3967	5	-	C	50	.110	.020	
	250-4021	5	-	C	50	.116	.020	
	250-4044	43	-	TR	50	.175	.032	
	250-4045	43	-	TR	50	.175	.032	
	250-4049	•	-	C				
	250-4063	5A	-	C	50	.085	.012	
	250-4070	•	-	TR				
	250-4172	•	-	C				
	250-4180	5	004	C	50	.110	.019	
	250-4207	•	-	C				
	250-4208	•	-	C				
	250-4816-009	23	-	TR	50	.140	.012	
	275-3930	23	-	TR	75	.140	.012	
	275-3962	26	-	TR	75	.165	.012	
	275-3991/616-569	36	007	C	75	.110	.015	
	293-3902M	•	-	C				
	293-3922	60	305	TR				
	293-3930	43	-	TR	100	.175	.011	
	293-3968	4	008	C	93	.155	.011	
	295-3801	4	008	C	95	.155	.010	
	295-3802	4	-	C	95	.144	.011	
	295-3950	43	-	TR	95	.175	.012	
	295-3952	43	-	TR	95	.175	.012	
	295-3958	•	-	C				
	295-3995	56	-	TR				
	295-3996	•	-	TR				
MIL-Spec	M17/094-007179	5	-	C				
	M17/113-RG 316/U	5	003	C	50	.102	.020	
	M17/116-RG307	•	-	TR				
	M17/128	4	-	C				
	M17/134-00001	7	-	TR	50	.245	.035	
	M17/135-00001	4A	-	TR	50	.500	.088	
	M17/157-00001	6A	-	C				
	M17/163-00001	6A	-	C	50	.405	.089	
	M17/164-00001, 2	6B	-	C	50	.425	.089	
	M17/176-00002	47	201	TW	77	.129	.024	M
	M17/177-00001	60	305	TR	95	.184	.012	
	M17/186-00001	•	-	TW				
	M27500-22TE2T14	45	210	TW	DATA	.137	.032	
	MC24643/33-OIUN/LS2	•	-	TW				
	SWU-1 (Uarmored)	•	-	TW				
	RG 5B/U	6E	-	C	50	.328	.050	
	RG 6/U, RG 6A/U	6E	017	C	75	.332	.029	C
	RG 8/U	6A	-	C	50	.405	.085	
	RG 9/U	6B	-	C	51	.420	.085	
	RG 11/U	6A	-	C	75	.405	.047	
	RG 13/U	6B	-	C	74	.420	.048	
	RG 22/U	10	-	TW	95	.409	.046	
	RG 22A/U & B/U	10	-	TW	95	.420	.046	
	RG 55/U & RG 55B/U	3A	012	C	53	.206	.032	
	RG 55A/U	3	012	C	50	.216	.035	
	RG 58/U	1	011	C	50	.195	.036	
	RG 59/U	2	013	C	75	.242	.023	C
	RG 62A/U	2	013	C	93	.242	.025	C
	RG 62B/U	2	013B	C	93	.242	.025	U
	RG 63/U	6A	-	C	125	.405	.025	
	RG 71/U	2	015A	C	93	.250	.025	C
	RG 87A/U	6B	-	C	50	.390	.094	E
	RG 108/U	9	213	TW	78	.235	.038	
	RG 111/U	10	-	TW	95	.420	.046	E
	RG 114/U	6A	-	C	185	.405	.007	
	RG 122/U	4	010	C	50	.160	.030	
	RG 141/U	1	011	C	50	.190	.039	
	RG 142/U	1	012A	C	50	.195	.039	
	RG 149/U	6A	-	C	75	.405	.049	
	RG 174/U	5	003	C	50	.100	.019	
	RG 178/U	5A	001	C	50	.075	.012	
	RG 179/U	5	004	C	75	.100	.012	
	RG 180/U, RG 180B/U	22	008	C	95	.145	.012	
	RG 187/U	5	004	C	75	.110	.012	
	RG 188/U	5	003	C	50	.110	.021	
	RG 195/U	4	008	C	95	.155	.012	
	RG 196/U	5A	001	C	50	.080	.012	
	RG 212/U	6E	-	C	50	.332	.057	
	RG 213/U	6A	-	C	50	.405	.089	
	RG 214/U	6B	-	C	50	.425	.089	
	RG 216/U	6B	-	C	75	.425	.048	
	RG 223/U	3	012	C	50	.216	.035	C
	RG 225/U	6B	-	C	50	.390	.094	E
	RG 303/U	21	011	C	50	.170	.039	
	RG 304/U	41	-	C	50	.280	.059	
	RG 316	5	003	C	50	.102	.020	
	RG 365	6B	-	C	50	.425	.089	
	RG 393	•	-	C				
	RG 400/U	1	012	C	50	.195	.039	
	RG 402/U	41	-	C	50	.141	.036	

Manufacturer	Designation	Cable Group Wrench	Cable Group Tool	Cable Type	Ω	Jacket O.D.	Cond. Dia.	Notes Pg 75
MIL-Spec	RG 405/U	86	-	C	50	.086	.020	
Mohawk	5305-8	10	-	TW	124	.420	.040	
	M52001-HT10431	9	-	TW				
Montrose	30-82921H01	21	-	C				
	6248	-	•	C				
	CBL6032	-	•	C				
	CBL6881	-	004	C				
	CBL7005	-	004	C				
	CBL7820	•	-	C				
	MCX7159 (RG179)	-	004	C				
National	D210-1	•	-	TW				
	D2241	•	-	TW				
NAVSEA	6262065-1	61	-	TR	50	.437	.089	
	6322493	62	-	TR	75	.465	.048	
NCR	008-0126089	-	•	C				
	008-0126097	-	•	C				
NEC	3C-2WS	-	•	C				
Nikkiaai	3C-2WS	-	•	C				
Norfolk	710855-30	•	-	TW				
	710855-35	•	-	TR				
Northern Electric	RG 187DS (type)	31	005	C	75	.120	.011	J
Northern Telecom	NT-734	-	025	C				
Northrop	O5A077-1	24	221	TW	77	.161	.024	J
	O5A078-1	•	-	TW				
Nuclear GR	RG 59 (type)	34	-	C	75	.242	.025	
Pac Bell	PEWC	-	016	C	750			
Panavia	PAN6421	-	204	TW				
Phalo	PH-036-001-80152	2A	019	C				
	PH-075-001-05678	•	-	C				
Pic Wire & Cabie	S33141	•	-	C				
Pirelli	RG62 (Teflon™)	2A	•	C				
Prime Stock	PS665PL	•	-	TW				
	PS666PL	47	-	TW				
Proflex	450/11 CTMA	•	-	C				
Raychem	0026A0024	•	-	TW				
	10584	24A	-	TR	95	.148	.012	
	10586	24A	-	TR	95	.148	.012	
	10595	•	-					
	10598	24A	-	TR	95	.145	.012	
	10602	45	204	TW	78	.144	.025	
	10605-22-9	•	-	TW		.165		
	10606	-	•		TW			
	10612	•	-	TW				
	10612-24-9	-	204	TW	78	.144	.025	
	10613	-	222	TW	77	.154	.025	
	10614	24	221	TW	77	.161	.025	J
	2524A0424	-	212	TW				
	2524EO114	-	212	TW	125	.179	.025	
	2526D1114	-	219	TW	125	.154	.020	
	5012W5812	61	-	TR	50	.437	.089	
	5018D3311	•	-	C				
	5021D1331	1	011	C	50	.185	.036	
	5021H5331	25A	-	TR	50	.258	.035	
	5022E5111	57	302	TR	50	.164	.033	A
	5026A1614	44	-	C	50	.080	.019	
	5026D5314	23	-	TR				
	5028A2211-9	44	-	C				
	5028D5312	•	-	TW				
	5030A1114	5A	-	C	50	.061	.012	
	5030A1214	5A	-	C	50	.061	.012	
	5030A1314	5A	-	C	50	.063	.012	
	5030A1318	5A	-	C	50	.063	.012	
	5030A1411	5A	-	C	50	.066	.012	
	5030A1511	5A	-	C	50	.066	.012	
	7028A5518	26	-	TR	50	.143	.015	
	7518A0811	62	-	TR	75	.465	.048	
	7522A1311	-	023	C				
	7552A1312	-	•	C				
	7524D5111	-	-	C				
	7526D5318	59	-	TW	50	.167	.020	
	7528A5314	64	303	TR	75	.148	.015	
	7528G1312-7	36	007	C	75	.110	.015	
	7530A5314	29	-	TW				
	7582A1114	•	-	C				
	7720C8662	-	213	TW				
	7724C8664	•	-	TW				
	7724C8664-9	24	221	TW	77	.161	.024	J
	7724D3664	58	217	Q	77	.145	.025	S
	7724H0684	•	-	TW				
	780D0331-0	•	-	TW				
	7826D0130	29	206	TW	78	.120	.025	
	7826D1330	4	-	C				
	810	37	-	C	75	.160	.020	
	9528A1317	4	-	C	95	.137	.015	
	9528A1417	4	-	C	95	.137	.015	
	9528A1517	4	-	C	95	.137	.015	
	9530A5117	24A	-	TR	95	.149	.012	

TROMPETER ELECTRONICS INC

VISA MasterCard (818) 707-2020 Fax (818) 706-1040

Cable Manufacturer & Cable Group# Tables

Finding /ordering cable connectors page 70

Compatibility Tables pages 76-77

Manufacturer	Designation	Cable Group Wrench	Cable Group Tool	Cable Type	Ω	Jacket O.D.	Cond. Dia.	Notes Pg 75
Raychem	9530D5117	56	301	TR	95	.164	.012	A
	9530H1014	36	-	C				
	9530H1118	36	-	C	95	.108	.013	
	9532A5114	23	-	TR	95	.140	.008	
	9532A5314	23	-	TR	95	.130	.008	
	EPD20653	•	-	TW				
	EPD22030D	•	-	TW				
	EPD22030F	•	-	TW				
	EPD22188B	-	218	TW	78	.150	.025	J
	EPD306	-	-					
	EPD6499	33	220	Q	77	.179	.025	J
	GS89134	-	-					
Raytheon	10271188	23	-	TR	93	.131	.009	
Rockbestos	RSS-6-104	2	-	C	62	.242	.032	
Rockwell	MP572-0279-0002	29	204	TW	75	.125	.025	A
	MP572-0328-0002	29	204	TW	75	.130	.025	A
Saxton	8315	•	-	C				
	8443	•	-	TR				
Sequoia	1000NS1V	36	-	C	50	.120	.040	
Siecor	8712812	47	201	TW				
Siemens	2YCCY	•	-	TR				
Sumitomo	E41105-YAWM1874	-	•	C				
Sippican	213034	27	-	TW				
Standard Wire & Cable	1100-66F	45	210	TW	DATA	.145	.032	
Structured Tech Corp	STC-001	•	-	C				
Suhner	G03233D	3	-	C	75	.212	.017	
	G04233D	2B	-	C	75	.260	.023	
Superior	FVP219	10	-	TW	124	.420	.040	
	FVP224	9	214	TW	124	.242	.021	
	VP-1	2	-	TW	125	.460	.051	
Surprenant	144 33B	•	-	C				
	1AS-WTE-1929A-JTE-A2606	•	-					
	1S 75MU-8	•	-	C				
	4236	37	-	C	DATA	.160	.017	
	8496	•	-	C				
	8946DS	•	-	C				
	9872	4	009	C	75	.145	.017	
	DBB12MBAC	•	-	C				
Sylvania (GTE)	19-805709-1	5A	-	C	50	.085	.012	
	73-1317911-1	27	208	TW	125	.110	.011	
Systems	A/B-7/70	7	-	TR				
Tensolite	16490/50509YXX-1	•	-	TR				
	1936-TX-10C2SW	47	201	TW	78	.129	.024	
	24453/42810 Q-2	58	217	Q	77	.145	.025	S
	24499/898X2	24	204	TW	DATA	.125	.025	A
	26895/15X-1	•	-	TR				
	30488/40642X-1	•	-	TR				
	30895/25L-1	60	-	TR				
	4885584	-	022	C				
	5M2142-001	•	-	TR				
	8712812	47	201	TW				
	92607	•	-	TW				
	E6372429	•	-	TW				
	SM2397-002	23	-	TR				
	STME637-2	-	206	TW				
Thermatics	11040	29	204	TW	75	.125	.025	A
	11079	29	204	TW	75	.130	.025	A
	11421	-	223	TW				
	11421	-	223	TW	68	.104	.019	
	11505	•	-	TW				
	12031	•	-	TW				
	12299	•	-	TR				
	165467-004	•	-	TR				
	425-1680-030VW-1	-	013	C				
	5M2022-003	-	204	TW				
	710855-35	•	-	TW				
	72116620-2	-	022	C				
	7591822	-	-					
	8712812 (A/F Dwg.)	47	201	TW	78	.125	.023	
	E80083	-	•	C				
	M17/117-00001	60	305	TR	95	.189	.012	
	NEC725-2(G)	53	-	C				
	RG6	41	020	C				
	RG62	-	•	C				
	TYPE CL2P	-	007	C				
Thermax	68-1938TF(2)SXE	-	223	TW	68	.104	.019	
	M17/110-RG302	•	-	C				
Times	2245	•	•	TR				
	2260	41	•	C				
	2444BL	10	-	TW				
	65555-RD316	31	003	C				
	68999	-	003	C				
	8712812	47	201	TW				
	AA-2325	-	-	TR				
	AA-2381	32	-	TR				
	AA-2511	2A	-	C	75	.220	.020	

Manufacturer	Designation	Cable Group Wrench	Cable Group Tool	Cable Type	Ω	Jacket O.D.	Cond. Dia.	Notes Pg 75
Times	AA-2992	-	-	C				
	AA-3096	34	-	C	50	.242	.050	
	AA-4479	•	-	C				
	AA-4668	•	•	C				
	AA-4888	•	-	TR				
	AA-5885	•	-	C				
	AA-5886	-	•	C				
	AA-5887	•	-	C				
	AA-6343	1	-	C				
	AA-7028	-	•	C				
	AA-7032	6E	•	C				
	AA-7038	2	•	C				
	BL 782	9	213	TW	78	.245	.039	
	BL 784	10	-	TW	78	.420	.067	
	BL 982	9	215	TW	98	.245	.032	
	BL 984	10	-	TW	98	.420	.053	
	BL1242	9	216	TW	124	.245	.022	
	BL1244	10	-	TW	124	.420	.038	
	M1-2040	•	•	C				
	RD-178	•	-	C				
	RG 108	•	-	TW				
	RG 180	•	-	TR				
	SF-142B	1	-	C	50	.185	.036	A
	SF-214	6B	-	C				
	SF-214	6B	-	C	50	.425	.089	
	SF-304	•	-	C				
	SF-5394	•	-	TR				
	TRF- 8	14A	-	TR	50	.500	.086	
	TRF-11	14A	-	TR	75	.500	.049	
	TRF-58	7	-	TR	50	.245	.038	
Times	TRF-59	13	-	TR	75	.325	.023	
	TRF-62	•	-	TR				
Trompeter	QRC- 78-1	39	-	Q	78	TBD	.022	
	QRC- 78-2	17	-	Q	78	.286	.040	
	QRC- 78-3	38	-	Q	78	.325	.039	
	QRC-124-1	40	-	Q	124	TBD	.012	
	QRC-124-3	38	-	Q	124	.335	.022	
	TCC-50-2, RG58 type	1	011	C	50	.195	.038	F
	TCC-75-2, RG59 type	2	013A	C	75	.242	.031	G
	TRC-50-1	32	301	TR	50	.156	.015	
	TRC-50-2	7	306	TR	50	.245	.037	
	TRC-50-4A	14A	-	TR	50	.495	.081	
	TRC-75-1	33	307	TR	75	.189	.012	
	TRC-75-2	7	-	TR	75	.245	.019	
	TWAC-78-1F2	49	205	TW	78	.095	.015	P
	TWC- 78-1	29	202	TW	78	.150	.022	H
	TWC- 78-2	9	213	TW	78	.242	.037	H
	TWC-124-1	•	-	TW				
	TWC-124-1A	29	203	TW	124	.150	.012	H
	TWC-124-2	9	214	TW	124	.246	.022	H
UK	BICCT(M)3205	-	016	C				
	BICCT(M)3304	-	015	C				
Unicable	ICN417-2052P	4	-	C				
USAF	8712812	47	201	TW	-			
VDO	711-PAN 6421	45	-	TW				
Vidar	RG 187DS (type)	31	007	C	75	.125	.012	J
Vought Aerodynamics	202-2964-222	57	-	C				
Wang	BICCT(M)3205	022	-	C				
	E-70431	022	-	C				
Western Electric	WECO-See AT&T							
West Penn	25813	-	012	C				
	2806	34	-	C				
	814	-	013	C				
	843	-	014	C				
	CL22815	-	023	C				
	CL2806	-	024	C				
	CL2815	-	023	C				
	CL2843	-	025	C				
	E39829	-	022	C				
	P-806	-	016	C				
Western Components	E79733	11	-	C				
Westinghouse	128C147H01	26	-	TR	75	.165	.012	
Woodson Elec	12-6530	5A	-	C				
Woven Elec	T19TPSJ2619EN	27	208	TW	DATA	.105	.012	

Cable Table Notes:

- • Special Order-Contact factory
- A Jacket slits required
- B Flooded burial type
- C Solid center conductor
- D 75Ω N connector available
- Special order
- E Without jacket
- F Green jacket
- G Violet jacket
- H Blue jacket
- J Double shield
- K Semi-rigid
- L Ethernet
- M Replaces TWAC-78-1F1
- N See IBM 4665584
- 0 All values nominal
- P Plenum cable
- R See Belden 89269
- S Quadrax for twinax applications
- T Conformable
- U MIL-C-17D/Strand 7x32
- X Under evaluation-Contact Factory

Connector Compatibility Tables

Coax Wrench/Tool Crimp Connectors

Finding /ordering cable connectors page 70

Select your connector and read across to find available cable group numbers.

Cable Group Numbers are provided for over 800 cables from many manufacturers on pages 71-75.

- • -Connector available for that cable group.
- ◊ -Old-style clamp, not Wrench Crimp.
- **L** -Requires **large body version** of connector.
- **B** -Bend relief boot available.
- * -75Ω versions are prefixed with **"U"**

BR - Column denotes **bend relief springs** (Wrench Crimp) **"Y"**-Available , **"N"** -Not available

***ZIP-SHIP* Cable Groups, highlighted in Red, are for specific connectors and availability may change.**

Coax Wrench Crimp Connectors

Wrench Crimp Cable Groups

PAGE	Connector	1	2	2A	2B	3	3A	4	5	5A	5B	6	6A	6B	6E	9	10	21	22	25	29	31	34	36	37	41	44	48	50	51	52	53	63	086	141	BR
38	BJ26*	B	B	B	B	B	B	B	B	B	B							B	B			B	B	B	B	B	B					B	B	B	B	Y
38	BJ29*	•	•	•	•	•	•	•	•	•	•	•			•			•	•			•	•	•	•	•	•			•	•	•	•	•	•	Y
40	BJ46*	•	•	•	•	•	•	•	•	•	•							•	•			•	•	•	•	•	•					•	•	•	•	Y
40	BJ49*	•	•	•	•	•	•	•	•	•	•	•			•			•	•			•	•	•	•	•	•			•	•	•	•	•	•	Y
43	BJ59	•	•	•	◊	•		•	•	•									•			•												•	•	N
43	BJ59FL	•	•	•	◊	•		•	•	•									•			•												•	•	N
36	BJ95*	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•			•	•	•	•	•	•	•	•					•	•	N
36	BJ96	•	•	•	•	•	•	•	•	•	•							•	•			•	•	•	•	•	•							•	•	Y
42	BJ139	•	•	•	•	•	•	•	•	•	•							•	•			•	•	•	•	•								•	•	N
43	BJ359	•	•	•	◊	•		•	•	•									•			•												•	•	Y
37	CJ20*	•	•	•	•	•	•	•	•	•	•	•	L	L	•			•	•			•	•	•	•	•	•	L	L	•	•	•	•	•	•	Y
38	CJ40*	•	•	•	•	•	•	•	•	•	•	•	L	L	•			•	•			•	•	•	•	•	•	L	L	•	•	•	•	•	•	Y
43	CJ50(FL)	•	•	•	◊	•		•	•	•									•			•												•	•	N
43	CJ350	•	•	•	◊	•		•	•	•									•			•												•	•	N
14	J3E/J3WE	•	•	•	•	•		•	•			•			•				•													•	•			N
25	J12	•	•		•	•		•	•			•																					•	•		N
15	J15	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•	•	•	•		•	•	•											N
25	J15MW	•	•	•	•	•	•	•	•	•	•	•						•	•															•	•	N
25	J16MW	•	•	•	•	•	•	•	•	•	•	•						•	•															•	•	N
37	PL20*	B	B	•	•	•	•	•	B	•	•	•	L	L	•			•	•			•	•	•	•	•	•	L	L	•	•	•	•	•	•	Y
38	PL40*	B	B	•	•	•	•	•	B	•	•	•	L	L	•			•	•			•	•	•	•	•	•	L	L	•	•	•	•	•	•	Y
43	PL50(FL)	•	•	•	◊	•		•	•	•									•			•												•	•	N
43	PL53	•	•	•	◊	•		•	•	•									•			•												•	•	N
22	PL93	•	•	•	•	•	•						•	•				•					•					•						•	•	N
22	PL94	•	•	•	•	•	•						•	•				•					•					•						•	•	N
36	PL95*	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•			•	•	•	•	•	•	•	•					•	•	Y
41	PL122*	•	•	•	•	•	•	•	•	•	•							•	•				•	•		•	•					•	•	•		N
41	PL123*	•	•	•	•	•	•	•	•	•	•	•			•			•	•				•	•	•	•	•			•	•	•	•			Y
42	PL130	•	•	•	•	•		•	•			•			•											•					•					N
42	PL131	•	•	•	•	•		•	•			•			•								•			•					•					N
43	PL350	•	•	•	◊	•		•	•	•													•	•										•	•	N
		1	2	2A	2B	3	3A	4	5	5A	5B	6	6A	6B	6E	9	10	21	22	25	29	31	34	36	37	41	44	48	50	51	52	53	63	086	141	BR

Coax Tool Crimp Connectors

Tool Crimp Cable Groups

PAGE	Connector	001	002	003	004	005	006	007	008	009	010	011	012	013	013A	013B	014	015	015A	016	017	018	019	020	021	022	023	024	025	026	027
38	BJ226	•	•	•	•	•	•	•	•	•	•		•	•	•		•	•		•	•	•	•	•	•	•	•	•	•	•	•
38	BJ229	•	•	•	•	•	•	•	•	•	•		•	•	•		•	•		•	•	•	•	•	•	•	•	•	•	•	•
40	BJ246	•	•	•	•	•	•	•	•	•	•		•	•			•	•		•	•	•	•	•	•	•	•	•	•	•	•
40	BJ249	•	•	•	•	•	•	•	•	•	•		•	•	•		•	•		•	•	•	•	•	•	•	•	•	•	•	•
37	CJ220	•	•	•	•	•	•	•	•	•	•		•	•	•		•	•		•	•	•	•	•	•	•	•	•	•	•	•
38	CJ240	•	•	•	•	•	•	•	•	•	•		•	•	•		•	•		•	•	•	•	•	•	•	•	•	•	•	•
14	J3(W)C			•	•				•	•	•		•	•			•			•	•	•	•	•							
25	J12C			•	•			•	•	•	•		•	•			•	•		•	•		•	•							
15	J13(W)C-R			•	•			•	•	•	•		•	•				•		•	•	•	•	•							
16	J14(W)C			•	•				•	•	•		•	•						•	•	•	•	•							
16	J14(W)CT-R			•	•				•	•	•		•	•						•	•	•	•	•							
16	J14(W)MC			•	•				•	•	•		•	•						•	•	•	•	•							
16	J14(W)MTC			•	•				•	•	•		•	•						•	•	•	•	•							
18	PL1(W)C			•	•				•	•	•		•	•	•		•	•		•	•	•	•	•					•	•	•
23	PL3C			•	•			•	•	•	•		•	•			•														
27	PL11C			•	•			•	•	•	•		•	•			•	•		•			•			•			•	•	•
27	PL11AC													•			•			•									•	•	•
43	PL(3)50C	•	•	•	•	•	•	•	•	•	•		•	•			•	•		•	•	•	•	•	•	•	•	•	•	•	•
37	PL220*	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•		•	•	•	•	•	•	•	•	•	•	•	•
41	PL223*	•	•	•	•	•	•	•	•	•	•		•	•			•	•		•	•	•	•	•	•	•	•	•	•		
38	PL240*	•	•	•	•	•	•	•	•	•	•		•	•			•	•		•	•	•	•	•	•	•	•	•	•	•	•
37	UPLRN220													•			•			•	•	•	•	•	•	•	•	•	•	•	•
		001	002	003	004	005	006	007	008	009	010	011	012	013	013A	013B	014	015	015A	016	017	018	019	020	021	022	023	024	025	026	027

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Connector Compatibility Tables

Twinax/Triax Wrench/Tool Crimp Connectors

Finding /ordering cable connectors page 70

Select your connector and read across to find available cable group numbers.

BR Column denotes **bend relief springs** (Wrench Crimp) , **"Y"**-Available , **"N"** -Not available

Twinax/Triax Wrench Crimp Connectors

Wrench Crimp Cable Groups

PAGE	Connector	7	7A	8	9	10	11	12	13	13A	14	14A	15	16	17	23	24	24A	25	25A	26	27	28	29	30	32	33	35	38	39	40	42	43	45	46	47	49	54	55	56	57	58	59	60	61	62	64	BR
52	BJ39				•														•			•		•												•	•											N
50	BJ74(FL/TL)	•			•											•	•	•	•	•	•	•		•	•	•	•					•	•	•		•	•		•	•	•	•	•	•			•	Y
50	BJ79(FL/TL)	•			•											•	•	•	•	•	•	•		•	•	•	•					•	•	•		•	•		•	•	•	•	•	•			•	Y
48	BJ89/BJ89F	•		•	•	•	•	•	•	•	•	•	•	•							•			•		•						•			•										•	•		N
54	BJ154(FL)															•	•	•				•		•	•	•	•						•			•	•			•	•	•						N
53	BJ159(FL)															•	•	•				•		•	•	•	•						•			•	•			•	•	•						N
50	BJ374	•			•											•	•	•	•	•	•	•		•	•	•	•					•	•	•		•	•		•	•	•	•		•		•		Y
50	BJ379	•			•											•	•	•	•	•	•	•		•	•	•	•					•	•	•		•	•		•	•	•	•	•	•		•		Y
48	BJ389(F)	•		•	•	•	•	•	•	•	•	•	•	•							•			•		•						•			•			•							•	•		N
48	BJ893(F)	•		•	•	•	•	•	•	•	•	•	•	•							•			•		•						•			•			•							•	•		N
54	BJ3154															•	•	•				•		•	•	•	•									•	•			•	•	•						N
53	BJ3159															•	•	•				•		•	•	•	•									•	•			•	•	•						N
49	CJ70(FL/TL)	•		•	•	•	•	•	•	•	•					•	•	•	•	•	•	•		•	•	•	•					•	•	•	•	•	•	•	•	•	•	•		•			•	Y
48	CJ80	•		•	•	•	•	•	•	•	•	•	•	•							•			•		•						•			•			•							•	•		N
53	CJ150(FL)															•	•	•				•		•	•	•	•						•			•	•			•	•	•						N
49	CJ370	•		•	•	•	•	•	•	•	•					•	•	•	•	•	•	•		•	•	•	•					•	•	•	•	•	•	•	•	•	•	•		•			•	N
48	CJ380	•		•	•	•	•	•	•	•	•	•	•	•							•			•		•						•			•			•							•	•		N
48	CJ803	•		•	•	•	•	•	•	•	•	•	•	•							•			•		•						•			•			•							•	•		N
53	CJ3150															•	•	•				•		•	•	•	•						•			•	•			•	•	•						N
30	J72S	•			•											•								•		•	•	•								•												
30	J72SM	•			•											•	•	•	•					•	•	•	•							•		•	•											N
28	J150																							•		•	•									•												N
52	PL30			•	•	•	•	•											•			•		•											•	•	•											N
30	PL71(L)	•	•		•											•								•								•				•												Y
49	PL73	•		•	•	•	•	•	•	•	•					•	•	•	•	•	•	•		•	•	•	•					•	•	•	•	•	•	•	•	•	•	•	•	•			•	Y
49	PL74	•		•	•	•	•	•	•	•	•					•	•	•	•	•	•	•		•	•	•	•					•	•	•	•	•	•	•	•	•	•	•	•	•			•	Y
49	PL75(FL)	•		•	•	•	•	•	•	•	•					•	•	•	•	•	•	•		•	•	•	•					•	•	•	•	•	•	•	•	•	•	•	•	•			•	Y
48	PL80	•		•	•	•	•	•	•	•	•	•	•	•							•			•		•	•					•			•			•							•	•		N
58	PL101														•														•																			N
55	PL151																							•		•	•									•												N
55	PL153															•	•	•				•		•	•	•	•						•			•	•			•	•	•						N
53	PL155(FL)															•	•	•				•		•	•	•	•						•			•	•			•	•	•						N
49	PL375	•		•	•	•	•	•	•	•	•					•	•	•	•	•	•	•		•	•	•	•					•	•	•	•	•	•	•	•	•	•	•	•	•			•	Y
48	PL380	•		•	•	•	•	•	•	•	•	•	•	•							•			•		•						•			•			•							•	•		N
48	PL803	•		•	•	•	•	•	•	•	•	•	•	•							•			•		•						•			•			•							•	•		N
53	PL3155															•	•	•				•		•	•	•	•						•			•	•			•	•	•						N

Twinax/Triax Tool Crimp Connectors

Tool Crimp Cable Groups

PAGE	Connector	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	301	302	303	305	306
54	BJ154AC(FL)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•		•
53	BJ159AC(FL)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•		•
53	CJ150AC(FL)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•		•
54	BJ3154AC	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•		•
53	BJ3159AC	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•		•
53	CJ3150AC	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•		•
49	CJ70C(FL)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
49	CJ70C(TL)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
50	BJ74C(FL)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
50	BJ74CTL/BJ374C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
50	BJ79C(FL)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
50	BJ79CTL/BJ379C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
49	PL73C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
49	PL74C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
49	PL75C(FL)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
58	PL153AC	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•		•
53	PL155AC(FL)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•		•
49	PL375C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
53	PL3155AC	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•		•
49	PLR74C/PLR75CTL	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•
49	PLR75CFL/PLR375C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•
53	PLR155AC(FL)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
53	PLR3155AC	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
47	SPC8P	•	•	•	•	•												•	•			•	•		•				
47	SPC8S	•	•	•	•	•												•	•			•	•		•				
57	BJ459AC/Group	•	•	•	•	•	•		•	•			•					•	•	•	•	•	•	•					
57	CJ450AC/Group	•	•	•	•	•	•		•	•			•					•	•	•	•	•	•	•					
57	PL455AC/Group	•	•	•	•	•	•		•	•			•					•	•	•	•	•	•	•					
56	PLR455AC/Group	•	•	•	•	•	•		•	•			•					•	•	•	•	•	•	•					

ZIP-SHIP Cable Groups, highlighted in Red, are for specific connectors and availability may change.

Coax, Twinax and Triax Crimp Tools & Dies

Coax Crimp Tool Dies

ZIP-SHIP

For Crimp Connectors

For Cable Group#	Use Die Sleeve	Sleeve Dim.	CD3-△2
001, 003, 004, 007-010, 026-028	B	.178" Hex	1
011-012, 021	A	.213" Hex	1
022-023, 025, 013-014, 018-019	B	.255" Hex	2
016	A	.324 "Hex	2
015, 020, 024	B	.290" Hex	3
017	A	.344 "Hex	3
002, 005-006	B	.197" Hex	5

Coax Crimp Tool

For Tool Crimp connectors

Tool Only CT3

Tool with die ... CT3/CD3-△2

For standard & miniature patching, 220 Series-BNC, 240 Series-TNC, 50C Series-TPS and 350C Series-TCM connectors

ZIP-SHIP

Coax Center Contact Crimp Tools

For **50Ω connectors**, use **die sleeve "C"** of CT3

Octadent crimp for **75Ω** center pin contact ..... TEI 010-0055

Octadent crimp for **PL11AC** center pin contact ..... TEI 010-0070

12-pt crimp for **75Ω** center pin contact ..... TEI 010-0080

Octadent crimp for **75Ω** center socket contact ..... TEI 010-0088

Cable Stripping Tools

ZIP-SHIP

Tool only ST1

Tool Crimp blade cassette only ..... STC-F

Wrench Crimp blade cassette only ..... STC-W

ST1 with **Tool Crimp** blade cassette ST1/STC-F

ST1 with **Wrench Crimp** blade cassette ... ST1/STC-W

Large Cable Stripping Tool

For cables with O.D. of .280"-.550

Tool only ST1L

Wrench Crimp blade cassette only ..... STCL-W

ST1L with **Wrench Crimp** blade cassette ST1L/STCL-W

Connector Assembly Tool

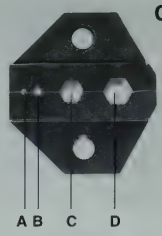
For Wrench Crimp connectors

Connector type	Dimension	Part#
BNC ,TNC, N, TRB, TRT	1/2" & 7/16"	AT1
TPS, SMA, PL1C, TRS, TTM	3/8" & 5/16"	AT2
TPS, SMA, PL1C, TRS, TTM	(3/8" & 7/16"Hex)	AT4

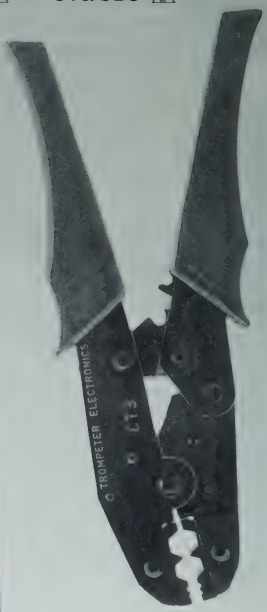
Connector Removal Tools

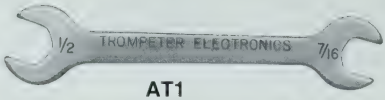
ZIP-SHIP

Connector type	Tool length	Part#
BNC, TNC, TRB, TRT, TWBNC, TWTNC	22"	RT1XL
Miniature coax cable connectors	12"	RT1L
New Product! For right angle connectors	12"	RTR1L
	6"	RT1S
New Product! For right angle connectors	6"	RTR1S
	3"	RT1SS
N Type	12"	RT3L
Standard coax cable connectors	6"	RT3S
TPS, TCM, TRS, TTM	12"	RT4L
Subminiature coax/twinax/triax cable connectors	6"	RT4S
TRC, TRN	23.25"	RT5XL
Standard twinax/triax cable connectors	13.25"	RT5S
	6"	RT5S



CD3-△2





Coax Crimp Tool Kits

TK2-1

TK-1

Contents — **Part# &Case Dimensions**

CT3 with **CD3-1** and **CD3-2** dies, ... TK-1
ST1 with **STC-F** cassette ..... 8"x12.25"x2.12" case

CT3 with **CD3-1**, **CD3-2** and **CD3-5** dies, **TEI-010-0055** TK2-1
ST1 with **STC-F** cassette ..... 6.25"x18"x4.62" case with tray

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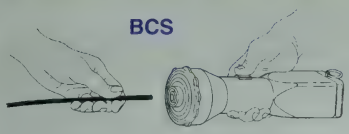
Coax, Twinax and Triax Crimp Tools & Dies

Portable, Hand-held, Coax Cable Stripper

BCS



Cutter head

BCS: Powerful **Ni-Cad battery powered**, hand-held cable stripper delivers production quality in the form of a low-cost, portable tool. 7.2V Ni-Cad battery (without memory affect) for up to 250 strips/charge. Kit includes one cutter head, DC (auto lighter) adapter, & AC charger.

ACS: AC powered, light-weight, portable hand-held tool with the power and speed of a production unit. Kit includes one cutter head, AC converter. Ni-Cad battery/AC converter power-packs are interchangeable.

Quick-change cutter heads: for fast stripping of different cables.

Key Features	Key Benefits
3"x 3"x 10" hand-held power driver	For production & field use
Less than 2.25 lbs	Light-weight & portable
7.2V Ni-Cad battery	Up to 250 strips/charge in the field
Optional AC converter	Constant AC power in the factory.
Replaceable 2/3 level cutter heads	Fast replacement for quick 2 or 3-level strips of different coax cables (Diameters .070"- .430").
Adjustable cutter depths	Precision tuning of blades for critical applications.
Tool steel cutter blades hardened to Rockwell 64 and precision ground.	Gives you up to 15,000 strips

Powered Cable Stripper Kits

BCS Driver, Ni-Cad battery pac, AC charger, DC adapter, One (1) C24TΔ cutter head, ... **BCS/C24T** ⚠2

ACS Driver, AC converter, ... **ACS/C24T** ⚠2

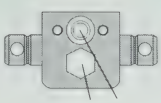
Cutter Heads

Common Cable Types	Cable Dia.	Cutter Levels	Part#
RG174, RG178, RG316	.070"-.110"	2-level	C24T2A
M17/93-00001		3-level	C24T3A
M17/179-00001,	.160"-.215"	2-level	C24T2B
Thinnet		3-level	C24T3B
TCC-50-2 (RG58), RG55,	.190"-.235"	2-level	C24T2C
RG141, RG302		3-level	C24T3C
TCC-75-2 (RG59), RG6,	.236"-.305"	2-level	C24T2D
Belden 8281, AT&T 728 & 734A		3-level	C24T3D
RG 8, RG11, RG213 , RG214	.300"-.430"	2-level	C24T2E
Ethernet		3-level	C24T3E
RG180, AT&T 735A,	.110"-.160"	3-level	C24T3I
Belden 8218, .141" Semi-rigid			

Accessories

	Europe	UK	N &S America
Extra Ni-Cad Battery Pak	RPB-EU	RPB-UK	RPB-NSA
AC Power Converter	ACC-EU	ACC-UK	ACC-NSA
AC Charger Cord	BCC-EU	BCC-UK	BCC-NSA
Auto 12V DC Charger Cord	-	-	DCC

M22520-5-01/CD5- ⚠2



Closure A B
CD5- ⚠2

Twinax/Triax Crimp Tool

ZIP-SHIP

Tool Only **M22520/5-01**

Tool with die ..... **M22520/5-01/CD5-** ⚠2

(Daniels HX4 or equivalent)

For Standard & miniature Twinax/Triax patching
70 Series:TRB/TRT, **150 Series:**TRS/TTM,
450 Series:2-lug/3-lug/threaded connectors.

Twinax/Triax Crimp Tool Dies

Closure A-Body crimp **Closure B-Shield crimp**

ZIP-SHIP

Connector Series	Cable Type	Cable Group#	Die Part#
70C PLR70C PLR150AC	Twinax	201-223	CD5-8
	Triax	301-303, 305-306	CD5-10
Small Body 150AC 450AC	Twinax	201-206, 208-209, 217-223	CD5-9
PLR450	Twinax	201-206, 208-209, 217-223	CD5-12
Small Body 150AC	Triax	301-303	CD5-11
Large Body 150AC	Twinax	207, 210-216	CD5-8
	Triax	306	CD5-13
M39029/90-529 M39029/91-530	Twinax	201-203, 205, 217-222	CD5-4 (Daniels Y631)
	Triax	301-303	CD5-7

Twinax/Triax Center Contact Crimp Tools

See right for applicable connectors, cables,& Cable Group#s

Crimp Tool Part#	Positioner Part#
M22520/1-01 (Daniels AF8 or equivalent)	Pin-TEI 010-0044 Socket-TEI 010-0045
M22520/2-01 (Daniels AFM8 or equivalent)	TEI 010-0041 (Daniels K815S)
M22520/2-01 (Daniels AFM8 or equivalent)	TEI 010-0043 (Daniels K816S)
M22520/2-01 (Daniels AFM8 or equivalent)	Daniels K709

⚠2 - See related table(s) for complete part number, **Finding/Ordering cable connectors** page 70, **Cable Group #** pages 71-75, **Compatibility** pages 76-77

Electronic Systems Wiring & Cable

After buying the most expensive "end" equipment, many systems engineers have difficulty in determining the best methods of cabling and interconnecting for the routing of signals with minimal loss, degradation and noise pickup. Simple solutions such as selecting the correct cable, eliminating common mode grounds or physically separating long runs of parallel cables will help make the difference between a good or bad system. It must be emphasized that these good practices must be implemented at the time of initial design and are almost impossible to implement after the system is built. This "interface" engineering will be discussed in following sections titled **"Signal Degradation"** and **"Noise".**

The systems engineer should study his system parameters and noise environment before selecting his cabling and connector components. Consideration must be given to:

- Signal frequencies (audio, video, IF or RF).
- Voltage and power levels
- Tolerable losses and degradation
- Reflected signals due to discontinuities
- Noise from direct contact common mode and ground loop returns, or radiated stray magnetic and capacitive fields.

Circuit wiring and cabling are susceptible to the pickup of noise, and all low voltage signal and data wiring should be shielded irrespective of the frequency to be transmitted. Coax cable (primarily designed to carry RF) is excellent for digital data transmission. It is relatively inexpensive (RG58, RG122, etc.) and many complete series of coax connectors are readily available.

High speed and broadband digital data must use RF coax transmission cable since the fast rise time narrow pulse has harmonics reaching into the RF region. For higher frequencies, coax cable **must** be used for point-to-point wiring since it has the transmission characteristics, flexibility and economy necessary for most systems.

Impedance Standards of Coax Cables

The most efficient impedance to use when transmitting a signal (considering only the voltages, currents and powers to be transmitted) is 75 ohm. The ***telephone industry***, followed by the ***TV industry***, uses 75 ohm almost exclusively for the transmission of ***video, baseband*** and ***IF frequencies***. The ***military services*** were faced with a differing need for low radiation angle ***omnidirectional antennas*** during the period 1920 through 1940 for broadcasting ship to ship, airport tower to low flying aircraft, and base station to ground troops. The only antenna that would fill that need was the ***vertical ground plane antenna*** (in its many forms) with transmissions at 50 ohm. The military standardized on 50-ohm impedance and spent vast sums of money developing cables and connectors for all of their coax systems. The Armed Services Electro Standard Agency (ASESA-at one time a military agency) designed all military coax components and assigned the connector UG and cable RG designations. This has since been replaced with the latest government/industry committees and the current general connector standard MIL–C–39012 (primarily for 50 ohm usage). The 93-ohm cable was developed to address the need for a ***low-capacitance instrumentation*** coax cable. By removing some of the coax dielectric and substituting air in the RG59 cable, the distributed capacitance was lowered, thereby creating a lower voltage loss transmission medium (RG62 cable).

More sophisticated cables and connectors of twinax, triax and quadrax are now available. These newer components improve external noise rejection and containment of classified signals.

Signal Degradation

Signal degradation in any transmission medium usually consists of voltage amplitude reductions, wave shape changes, phase or delay changes, or power losses where power is transmitted. In most systems the interconnecting cable is the longest transmission path and its selection, manufacture, testing and installation should be carefully considered. Cable should not be randomly selected and installed.

When selecting cable from specifications, always consider the length of the cable run, heat exposure, frequency and power to be transmitted vs. the acceptable losses inherent in the cable, the external noise fields and frequencies to be anticipated or encountered. Also consider the availability of connectors to terminate the cable. Too small a cable will always be cause for excessive losses. Fast rise time digital pulses will have the leading edge distorted due to the high resistance "skin" effect of small coax cables. When selecting a cable for a long run, observe the insertion loss to assure that your signal gets to its destination without too much loss. **When in doubt select a larger cable!** Incomplete copper coverage in the outer braid over the dielectric will cause transmission line losses and affect the cable's susceptibility to signal leakage or noise pickup. A copper braid coverage of 80% should be the minimum with 90% being preferred. Skimping on the quality of the copper braid will affect the cable's loop resistance and its "line" and "transfer" impedance. As a good rule of thumb, if the dielectric is visible through the braid (without bending the cable) then the cable should not be used.

Unseen manufacturing faults produce signal path impedance changes or discontinuities which can only be detected by "frequency sweeping" the cable. TV broadcasters have encountered as high as 60 dB losses in short runs due to periodicity and other manufacturing faults that are only detectable by swept frequency testing techniques. RG59,

RG62, and other coax cables use copperweld wire for the center conductor. Copperweld is a high resistance steel wire with a copper cladding on the outside and was originally intended to give strength to TV cables when suspended from poles or pulled through ducts. This steel wire will increase the cable attenuation on a long run (particularly at the lower frequencies) due to the high resistance of the copper clad steel. RG59 and RG62 have approximately 44 ohms per 1000 loop feet as compared to 17 ohms when using pure copper for the same size center conductor. It is also difficult to effectively crimp a center contact pin on the hard steel copperweld wire.

Many cable defects are not readily visible and may not show up without proper testing. The reputation of the manufacturer, the type, quantity and quality of material used is more important than cost savings in selecting coax cable.

Be careful that cable does not support heavy equipment or is subject to prolonged exposure to heat in system installations. To avoid cross talk do not tightly "bundle" cables. Do not bend cable beyond the manufacturer's recommended bend radius in order to avoid producing cable discontinuities. Try to space high signal level or power circuits separate from low signal level cables when routing cables.
Signal cables are usually manufactured with polyethylene which is adequate for normal use. Teflon™ dielectric and sheathed cables should be used where high heat or chemical action will attack poly cables (such as in aircraft or industrial plants). The National Fire Underwriters now requires non–fire supporting cable to be used for all open wiring in public buildings (***plenum wiring***). Fire insurance rates can be greatly reduced in computer, nuclear accelerator and other large installations if TFE or FEP cables are used.

All transmission cable manufacturers should provide the electronic characteristics of their cables (including power handling and attenuation per foot versus frequency) to aid the system design engineer in doing a proper job. For instance, RG58C has the following characteristics if built to military specifications:

Attenuation in dB per 100 foot length
(Ambient temperature 100°F in free space at sea level)

Frequency MHz	1	10	50	100	200	400	1000	3,000	5,000	10,000
Attenuation	.44	1.4	3.3	4.9	7.4	12	24	54	83	100
Power (Watts)	3,500	1,000	450	300	200	135	80	40	20	-

Note how quickly the cable becomes unusable at the higher frequencies. Lowering the dielectric constant of the dielectric with Teflon™ or foamed Teflon™ and silver plating the inner and outer conductors to increase the skin effect conductivity will greatly improve the high frequency usage. The increase in performance justifies the additional cost. Keep in mind that for a 10 dB loss, only 3/10ths of the transmitted voltage will show up at the receiving end, and only 1/10th of the generated power will be available. (Assuming a reasonably good impedance match.) If the operating temperature is higher than the rated temperature or if the cable is used at high altitudes, the attenuation and power handling capacity should be derated.

Low-priced cable should be carefully considered. Any reduction in the amount of copper in the conductors or in the quality of materials used throughout will effect performance. Many manufacturers provide better performance in their smaller cables by using materials better than minimum Mil Specs require. Cable performance will also degrade with time and can be adversely affected by the environment where it is installed (sun, ozone, salt, sulphur products, etc.). A cable's shielding effectiveness versus the signal frequency to be transmitted should also be considered where noise pickup can be a problem. It is usually financially and physically impossible to undo any damage or replace cables once they are installed and terminated.

All RG59 cables are **not** the same. By adding the word "Type" a manufacturer may bypass minimum spec requirements to reduce pricing. Some manufacturers build a "better than Mil Spec" cable and supply a superior product. They **also** must use the word "Type" since they **exceed or deviate** enough from the electrical and mechanical specifications. This also applies to connectors. Be cautious of "low bid" surplus dealers, distributors, or packaging houses. Inventoried cable may deteriorate with time. The design engineer and installation technician must be aware of the many hidden and unknown cable properties that may be detrimental to the system's performance. Buyers accepting low bids may burden engineers and technicians with future problems due to hidden deficiencies.

Coax Cable Connectors

Any connector must be able to interconnect with very low DC series resistance (less than 10 milliohms). The impedance of a connector is usually of no consequence below approximately 300 MHz. The connector does not contribute to circuit performance until the signal length approaches 1/20th of a wavelength. 50 ohm connectors can be attached to 75 ohm ***video cables*** with little detrimental effect. **However, the effect of a connector on a signal is cumulative**. Coax connectors should be impedance matched to the system impedance for frequencies above 300 MHz.

Very low level signals (-100 to -130 dBm) are encountered in certain applications (such as ***satellite communications***). The generation of ***intermodulation products*** and non-linear distortion caused by the presence of ferro-magnetic material in the conductor has become a more prominent factor in the selection of cables and connectors. Ferromagnetic materials, such as iron, stainless steel, cobalt and nickel, are commonly encountered in RF conductors. They are encountered in the form of copper clad steel cables and wires, and in environmental protective platings containing nickel. Even minute amounts of these materials can generate noise levels capable of masking or obliterating low-level signals.

Connector base materials should be plated with bright copper for surface finish and conductivity, followed by a low-porosity, pulse-plated gold finish plating for environmental protection and minimum contact resistance. The use of a nickel understrike is to be avoided and is not necessary when the gold is deposited by proper pulse-plating techniques. SMA (and similar connectors) using stainless steel

as the base material, and coax cable using any copper clad wire in either the inner or outer conductors should not be used for this application. **Heat treated beryllium-copper should be used for critical contact springs** to maintain contact resilience. Many manufacturers use ordinary brass which soon loses its contact pressure and the connector becomes noisy or fails.

Unfortunately, military specifications governing the manufacture of connectors and related equipment do not recognize the pitfalls mentioned above. Lax specifications and "low-bidder" procurement policies will frequently place inferior components in critical applications. The military "Qualified Product List" (QPL) is only a tabulation of products and manufacturers certified to meet the barest minimum specification standards. Manufacturers are relied upon to police their own products. Under "low bid" pressure, QPL listed products below the quality necessary to do an adequate job may slip by. There are many instances of junk or counterfeit parts being supplied to the government under the guise of "low bid."

There is no provision that will insure the quality of products. The systems engineer can no longer afford to take cables and connectors for granted. He must be aware of cable characteristics such as attenuation, phase displacement, and transfer impedance. The systems engineer must also understand the inherent characteristics of the many connector families available and the strengths and weaknesses of individual manufacturers' connector designs. He must be willing to expend the time and effort to specify the quality component his system demands.

The many types and series of coax connectors presently available can cause confusion for users. Many of the lesser known series were designed to address specific problems or were developed by commercial companies for their own proprietary product line. The connector series listed below have gained universal acceptance due to their simplicity and performance. They are produced and stocked by the majority of coax connector manufacturers.

Nominal Cable Size O.D.	Connector Size	Quick Disconnect	Threaded
.060 to .425	Standard	C	N
.060 to .425	Miniature	BNC	TNC
.060 to .225	Subminiature	TPS	TCM

Much can be written to discuss the advantages of one series of connectors over another. Selection is normally based on cost or performance depending upon the system parameters required.

Connector attachment : Crimping or Soldering

Crimping is normally used where the speed of attachment is important or where it is virtually impossible to solder due to lack of power (as on the top of a telephone pole or in a cable vault). A special crimp tool quickly and simply installs the connector to the cable. Repair requires a new connector for replacement. Soldering, on the other hand, does not require any special tool. A soldered connection will not corrode provided adequate heat is correctly applied to avoid a "cold solder joint." Some soldered coax connectors may be used over without special tools or replacement parts . This is advantageous on shipboard or in field locations where replacement parts or tools are not always available.

Noise

Electrical noise is by definition, any unwanted interfering voltage, developed within or externally to a system, which reduces the performance of that system. "Noise" has always been a problem and in the past was usually reduced by brute-force filtering which reduced or stopped "noise" **after** it had entered the system. This method was quite expensive, but reasonably effective since signal information voltages were low in frequency and systems were few and not too large or complex.

Present day ***communication*** and ***data systems*** are continually becoming larger, more numerous and use higher information rates and frequencies in an atmosphere of expanded electrical and electronic equipment usage. The net result is ever increasing levels of interference and noise which creates an electronic traffic jam of major proportions. This applies equally to ***low level analog*** and ***digital pulse systems***. Filtering is practically useless (or in some cases, completely unusable) since it produces excessive deterioration of the desired pulse waveforms or inaccuracies and distortion of analog signal voltages. Noise reduction is best accomplished by simply stopping "noise" **before** it enters the system.

The following describes how external noise is introduced into systems by the equipment interconnecting wiring, and the improvements that can be realized by installing noise-rejecting type cables and applying good equipment isolation and grounding techniques.

Most electronic equipment does not produce random noise and usually performs the singular task it is designed to do. Unwanted noise is picked up by the interconnecting wiring through the direct contact action of ground loops and common mode returns, or by inductive and capacitive pickup of nearby radiated fields. A desired signal in one circuit can be noise to another. Interference can be produced by local circuits within the system or from equipment completely removed and external to the system. Conversely, cables can radiate the signal they are carrying into adjacent circuits (cross-talk), generating interference to other data systems or causing security compromises in classified military communications. This problem can be further compounded by poor cable-to-equipment impedance matching which produces signal reflections and high standing wave ratios. Poorly selected and installed cabling can act as both transmitting and receiving antenna or as undesired primary and secondary windings of coupling transformers, placing interference into the system.

Systems are often designed, fabricated, and installed using the simplest multiwire cable or grounded coax between equipment, racks, and buildings, not realizing that they will probably encounter and pick up all manner of interference. Nearby electrical equipment such as high power radar, broadcast stations, power distribution mains, fluorescent lighting, arcing motors, teletype and communications cir-

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cuits are but a few of the noise makers. The lower the system signal voltage level, the greater is the susceptibility to this outside interference.

A system design might work fine on paper or when initially assembled and tested. But it may not perform as anticipated when installed at its final location on ship or shore. You may realize that the completed system has picked up much noise and hum, or is itself radiating interference so heavily that the equipment is unusable. Costly additional effort, parts, and time expended to locate and attempts to eliminate the causes of the noise pickup may meet with little success. Cable-to-equipment interface engineering should be applied at the start of system planning and design to avoid this unnecessary waste. This applies to all systems for low or high frequency signals, for applications in ***TV, telemetry, timing, ordnance, environment testing, computer, telephone, test instrumentation***, or ***normal communications.*** Each system must be considered individually, since the signal frequencies and amplitudes within the system and the anticipated external interference will dictate what type of cabling and connection techniques are to be used.

Examples of good cable engineering

Low-level environmental systems predominantly use "guarded" balanced and shielded lines to transmit the calibrated transducer test voltage to an isolated charge amplifier.

TV video is distributed over 124-ohm "shielded twisted pair" (twinax), instead of coax, in high noise areas to cancel low frequency magnetic field cross-talk and hum.

Digital applications in the ***computer*** and ***instrumentation*** fields require good high-frequency design engineering when transmitting nano-second rise time pulses. A 10 nano-second rise time pulse is equivalent to 100 megahertz RF. Using good coax cabling techniques helps to avoid pulse reflection, false noise triggering or data inaccuracy.

Special care is required to keep noise from entering ***information systems*** (particularly ***aircraft***). ***Low level communication circuit*** cabling should be space separated and have effective shielding from adjacent parallel power circuits to avoid induced hum.

Unprotected circuits (such as ***ordnance*** and ***timing***) can receive false pulsing if exposed to external radiated RF interfering fields.

High megawatt pulsed radar will introduce both its carrier and PRF into nearby sensitive low-level unprotected cable runs which act as receiving antennas.

Sometimes the transmitted pulses have amplitudes of hundreds of thousands of volts (as used in ***atomic energy testing*** or ***linear accelerators)*** thereby producing large magnetic and capacitive interference fields. These play havoc with local cable-connected instrumentation and electronic equipment.

In the case of ***nuclear attack***, a tremendous electromagnetic pulse (EMP), transmitted for many miles from ground zero, will induce extremely high voltages in all unguarded and unprotected cable and equipment. It is estimated that a vertical electrical field intensity of 50K volts per meter will be present 62.5 miles from a 10–megaton near-ground explosion. Larger bombs exploded at higher altitudes will cause correspondingly greater damage, including the disruption of the national power grid. This may burn out many sensitive components. Solid-state transistors and diodes, integrated circuits, front end RF coils, sensitive relays and reeds are typical of the sophisticated elements used today for both military and commercial systems that may fail even though far removed from the fireball area.

The lack of money, time and qualified personnel will not permit complicated and costly post-completion interference cleanup of poorly engineered systems. The use of good coax, twinax, triax, or double shielded balanced line (quadrax) in isolated or guarded circuitry, will do much to suppress outgoing EMI and RFI, reduce incoming noise pickup, and help protect both your system and the adjacent system from mutual interference. Careful cable to equipment interface planning must be exercised to produce workable compatible systems. Design engineers are not free to treat cable installation as casually as they may have in the past.

Coax Cable

Shielded cable should be used to protect against magnetic and capacitive stray fields in all cases of potential interference (low or high frequency). Grounded coax cable is excellent for use from 20 kHz to 5 gHz for most systems. But even coax, if subjected to very strong interference, will not completely protect the desired signal. Coax cable is a two conductor cable. The outer conductor of a coax cable is not a true shield in that it is also the signal return. A true shield is insulated from the signal carrying conductors and protects the enclosed coaxial conductors. However, the outer conductor of a coax cable is an electrostatic shield and thus protects against capacitive interference. When two conductors at different voltages are placed near one another, a charge difference exists between them. Since a charge difference exists between the two conductors, a capacitive effect also exists between them. Such capacitive effects can give rise to interference signals in both conductors.

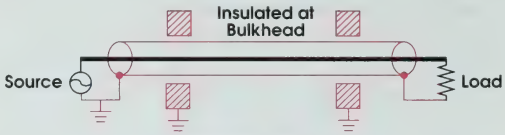
To prevent wires which carry low-level signals from being influenced by capacitive effects, you need to surround the low-level signal wire with an electrostatic shield. This type of shielding is effective because external electric fields cannot penetrate an enclosure surrounded by an electrical conductor. Coax cable should be used when low-level signal wire is likely to come in contact with another signal carrying wire. This is especially true when the voltage difference between the signal carrying wire and the source of interference is large. Any external voltage injected in this braid will act as noise to the desired signal in the coax. The sophistication of cable and equipment isolation techniques used is dependent upon the frequency of the interfering noise and how it enters the cable system. Any additional measures taken to reduce incoming noise will also reduce outgoing radiation and cross-talk.

Ground Loops and Common Mode Returns

Coax cable consists of an inner and an outer conductor insulated from each other. Each conductor carries a desired signal current (source to load or return). The outer conductor is usually grounded at the source, load, bulkheads and other intermediate points. "Ground loop" or "common mode" currents caused by potential differences of external noise sources are also simultaneously carried on the outer conductors and noise is introduced into the system, greatly reducing the "signal-to-noise ratio."

Non-Insulated Feed Thru
Multiple Noise Currents (I_N)

Low frequency signals (20 KHz to 6 MHz) are particularly susceptible to both ground loop and common mode interference. Coax cable is recommended in this case with the complete coax chain having a **minimum** number of outer conductor ground contacts. Reducing the number of ground connections reduces the number of possible ground loops. Major equipment, relays, switches, connectors, patch panels, etc., should be **isolated from ground** with the ultimate design having only one system ground connection at the source.

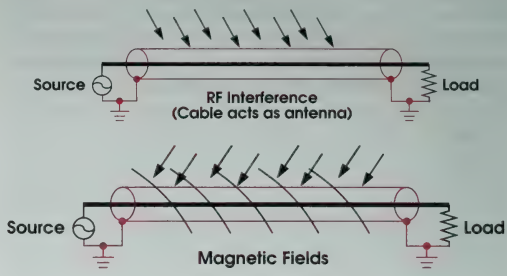


Insulated Feed Thru
No Noise Currents (I_N) in
Signal Return

Radiated Fields

Where strong radiated noise fields exist, such as ***high-powered radar, broadcast stations, power lines, fluorescent lighting, office*** and ***industrial machinery***, multiple cable runs, etc., the cable conductors act as receiving antennas or secondary windings of transformers and pick up externally generated noise. At higher frequencies, a part of the energy associated with the fluctuating current of charge in a conductor is radiated away from the conductor in the form of electromagnetic radiation. Electromagnetic shields make use of the fact that the electromagnetic radiation must simultaneously contain electric and magnetic fields in order propagate independently through space. Therefore, a shield designed to eliminate electrostatic fields can be used to neutralize the electric field component of an electromagnetic wave. Consequently the outer conductor of a coax cable connected to a ground through a low-impedance path will be an effective shield against electromagnetic interference.

In high-level RF environments, it is desirable to minimize the RF potentials existing between points on a coax shield. The shield should be grounded at both ends of the cable and at intermediate points along the cable. This multi-point grounding of the shield maintains the RF shielding effectiveness of the cable. If coax cable is used in a radiated interference area, the outer conductor should be grounded as often as possible and wherever feasible in order to remove the radiated interference as soon as possible. If your application requires that you address **both** ground loops and radiated interference, you may need to use either twinax or triax cable.



A particularly bad source of noise pickup is the induced currents (cross-talk) encountered in large multiple cable installations.

Cross Talk

Two improved types of cables are used for additional protection against these radiated sources:

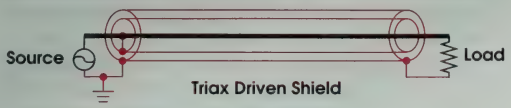
Triax Cable

Triax cable is coax cable with an additional outer copper braid (insulated from the signal carrying conductors) that acts as a true shield and protects the enclosed coax conductors. This braid or shield is grounded and passes both ground loop and capacitive field noise currents away from the signal carrying coax, thereby greatly improving the "signal to noise" ratio over standard coax cable.

Triax Cables Provide Additional
Shield, Insulated from Signal Carrying Coax

Triax cable is also used in "Driven Shield" applications where the inner conductor and thefirst braid are driven in parallel at the transmitting end and work against the outer braid which is insulated above ground. The inner braid is left floating at the receiving end, providing a "Faraday" shield between the inner conductor and outer braid. In this way the cable's **distributed capacitance** is greatly reduced, thereby reducing cable losses and loading. This application is most effective in ***high frequency trans-***

ducer data systems where the distributed capacity in coax cable limits the data accuracy. The two outer braids of the triax cable can be used as a low-impedance (approximately 12 ohms) transmission line to carry high-current pulses to ***low impedance laser lamps*** or ***exploding bridge wire*** (EBW) ***ordnance systems***. Triax cable and connectors completely **insulated** from the ground are available for these applications.

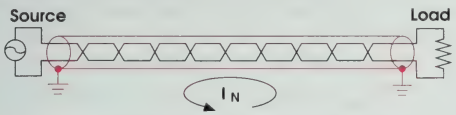


Triax Driven Shield

Twinax Cable

Twinax cable is a two-conductor twisted balanced wire line with a specific impedance and a shielding braid around both wires. The twisting of the two balanced-signal-carrying wires cancels any random induced noise voltage pickup, giving protection against any low frequency magnetic noise passing through the copper braid.

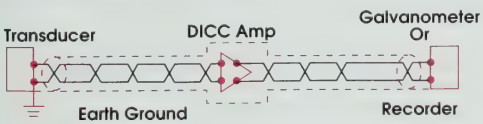
Trompeter's twinax cable design also lowers cable losses by adding two (2) dielectric fillers under the braid which separates the braid away from the signal pair, thereby lowering the leakage capacitance to ground. Additionally, the coverage is improved to 90% by using more copper wire in the braid and weaving it tighter. Like triax cable, Trompeter's twinax cable provides protection against ground loops and capacitive fields. Twinax cable usefulness, however, is limited to approximately 15 MHz since it has rather high transmission losses above this frequency. The 124 ohm twinax cable is used extensively by the Bell Telephone System for ***video transmission***. Twinax cable and concentric connectors are available for ***low frequency, digital*** and ***video distribution systems***.



Twinax Cable Provides A Shield, Insulated from The Twisted Pair Signal Carrying Conductors

Twinax Guarded Cable Hookup

In ***instrumentation systems***, where ***thermocouple*** and other ***transducer information*** must be remotely recorded, additional **common mode rejection** of noise can be obtained by using twinax with only one ground contact located at the transducer. **Insulated** concentric twinax connectors are available for this type of application.



Guarded Twinax Cable System (one ground)

Quadrax Guarded Circuit

Quadrax cable is twinax cable with two separate insulated braids connected to "system" ground and "earth" ground, respectively, and is the ultimate in flexible cable for ***protected*** and ***guarded circuits*** (Fig. 1). Quadrax cable can also be used to provide additional noise and EMI suppression by connecting both shielding braids to a single earth ground if a separate equipment ground is not available (Fig.2). The inner braid (left floating above ground at all other locations) acts as a Faraday shield to provide additional circuit isolation. Coax cable with **two** extra insulated braids can be used in similar engineering designs for unbalanced systems.

Quadrax Guarded Circuit (Fig.1)

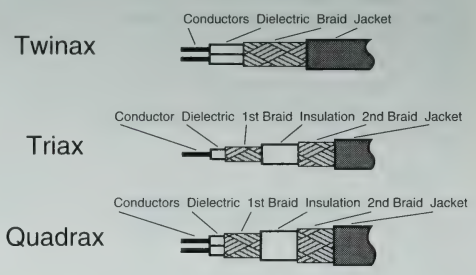
Quadrax Guarded Circuit (Fig.2)

Bonding & Grounding

Good bonding and grounding are absolutely essential if noise pickup reduction is to be accomplished. Equipment isolation, cabling, bonding, and grounding are all part of the noise pickup and EMI/RFI problem. The method of equipment interconnecting and grounding is a function of the signal frequency (LF, video or RF), and no one simple answer can be provided. The following common conditions require detailed consideration:

- **"Earth" grounds:** require extensive grids, ground rods, and chemical preparation to obtain an extremely low resistance and impedance system ground return.
- **Ground isolation:** In many instances in low-frequency data systems where equipment is widely separated, equipment ground "planes" should be isolated from earth grounds to avoid "noisy" ground loops caused by power and other equipment in the immediate area.
- **Parallel cabling:** Space isolate cabling of similar functions (i.e., RF from RF, video from video, and cables carrying vastly different voltage levels) so that they do not have mutual capacitive or inductive coupling.
- **Termination impedance:** Properly terminate all pulse and high-frequency cables in their characteristic impedance so that the cable reactive components are cancelled out and the voltage standing waves are reduced to a minimum.
- **Cable selection:** The higher the frequency, the faster the pulse rise time, or the longer the cable run; the bigger the cable required to reduce dielectric losses and lessen the distortion of pulse shapes.

• **Grounding location:** If "system" ground and "earth" ground must be connected, it should be done at minimal locations (preferably one) using extremely low-impedance bonding paths and materials. Otherwise, RF and high-frequency bonding should be made frequently to provide the shortest RF path to ground and to prevent the ground return from acting as an additional length of antenna.



Systems Usage

Most engineers are quite familiar with the long-time use of 75 ohm coax cable in ***IF*** and ***baseband telephone transmission*** installations and its universal use for ***broadcast*** and ***cable TV.*** Coax and twinax cables are being used for ***local dedicated installations*** with the rapid growth of ***commercial computer data distribution***. The newer non-dedicated commercial coax data bus systems (***Ethernet*** and ***Z-Net***) tie many terminals to one high bit-rate trunk cable. ***Military aircraft systems*** are now being designed calling for 78 ohm twinax data bus distribution for main functions of ***guidance*** and ***control, navigation, communications,*** etc., per **MIL–STD–1553B** (TRS and TRB series connectors). **MIL–STD–1397** specifies 50 ohm triax in ***naval ship digital data bus*** applications which use the TRB and TRC series connectors listed in **MIL–C–49142.**

Armor covering should be applied over delicate cables when greater **mechanical protection** is required against vandalism, sabotage, rough handling, rodents, fire or other high risk conditions. Coax cable VSWR quickly deteriorates when the cable is repeatedly stepped on or bent beyond its tolerable bend radius. ***Mines, prisons, open field use, sewers*** and ***engine compartments*** are just a few areas where armoring should be considered.

Interference is becoming a major problem with the proliferation of ***digital computer*** installations, ***data transmission*** systems, and ***local area networks*** (both baseband and broadband). The main interference encountered is caused by the high harmonic content of the digital pulses that fall in the RF region and radiate into free space or cross-talk to other victim cables. **F.C.C. Docket 20780** mandates the reduction of this radiation for ***personal and business computers***. This can be accomplished in part by shunting the unnecessary high harmonics to ground at the equipment locations before the signal gets into the transmission cable.

Choice of cable type and installation:

- **Grounded Coax:** Can pass the high information rates, but is subject to ground loops as well as magnetic and radiated noise pickup.
- **Ungrounded Coax:** Can pass the high information rates, but is subject to magnetic and radiated noise pickup. Substantially lowers the ground loop interference.
- **Triax Cable:** Can pass the high information rates, but is subject to magnetic noise pickup. Substantially lowers the ground loop interference and removes the radiated noise.
- **Twinax Cable:** Passes only medium information rates, but hinders the pickup of magnetic interference due to the "twist" of the signal pair. (Equipment usually operated with balanced inputs and outputs.)
- **Quadrax Cable:** Passes only medium information rates, but hinders the pickup of magnetic interference due to the "twist" of the signal pair. Also gives additional radiated noise protection and allows the inner braid to be used for ***DC control voltages*** in some applications. (Equipment usually operated with balanced inputs and outputs.)
- **Ungrounded versions of Twinax and Triax:** Provide even more ground loop isolation.

The choice of materials to be used in these cables is of major importance. For ***commercial installations in public buildings***, the National Electrical Code, Underwriters Lab and local ordinance requirements must be complied with. ***Fire wicking cables*** routed horizontally through fire walls and vertically floor-to-floor are required to be metal ducted (a very expensive and inflexible mode of construction). ***Approved cables made of FEP*** can be routed horizontally and vertically, without ducting, in air plenums with a great reduction in size and cost and with much **greater flexibility for future modifications.** Increasing insurance premiums will almost dictate that **flame retardant non-toxic materials** be used in all future public building cable installations to reduce potential loss of life and property. The same applies to ***military aircraft cables*** which must also be able to withstand exposure to fuel and cleaning solvents. Connectors are available for these special cables.

This technical paper is an edited version of an original paper written by the late Ed Trompeter.

We have included it in our catalog to give the **design engineer** some insight into what may be done to produce noise-free systems without extensive rework and debugging.

It is our hope that **purchasing agents, material managers, technicians, salesmen** or anyone involved in the **design, sales,** or **installation** of electronic systems wiring or cabling will also benefit from reading this paper.

Copies of this paper may be made from this catalog and distributed for educational/training purposes without prior consent from Trompeter Electronics, Inc.

Trompeter Electronics, Inc., has developed coax connectors that are isolated above ground, but have a 6 nanofarad bypass capacitor, shunting the outer braid to ground for high harmonic attenuation. In many instances, interference can beso severe that twinax (balanced-shielded) or triax (shielded coax) cables must be used along with the proper connectors to provide good isolation, bonding and grounding.

As previously discussed, high bit-rate signals require high-frequency transmission cables (coax, twinax, triax and even quadrax) to minimize amplitude and frequency distortion and to prevent noise pick-up from external interference.

The **design engineer** must select the optimum cable and connectors for maximum reduction of interference due to radiated RF and magnetically coupled or direct contact ground loop noise. This can reduce the number of noise suppression filters and amplifiers required.

A repeated word of caution is offered for those contemplating "digital" use. Low-voltage digital lines should not be placed in the near proximity of high-voltage and high current cables. Nor should a single multi-function connector be used due to the strong probability of cross-talk coupled interference. Physical separation of the cables is the first and best solution, with shielding and isolation above ground being the second consideration.

For ***building installations,*** some mandatory reading is available from the following organizations:

National Building Code
American Insurance Assoc.
85 John Street
New York, New York 10038

Standard Building Code
Southern Building Code Congress Int'l
900 Montclair Road
Birmingham, AL 35213

Uniform Building Code
Int'l Conference of Building Officials (310) 699-0541
5360 South Workman Mill Road
Whittier, California 90601

BOCA Basic Building Code
Building Officials & Code Administration Int'l
17926 S. Halsted Street
Homewood, Illinois 60430

National Electric Code
National Fire Protection Assoc. (617) 770-3000
Batterymarch Park
Quincy, MA 02169

"UL" Publications

Underwriters Laboratories, Inc. (516) 271-6200
1285 Walt Whitman Road
Melville, NY 11747

Underwriters Laboratories, Inc. (708) 272-8800
333 Pfingsten Road
Northbrook, IL 60062

Underwriters Laboratories, Inc. (408) 985-2400
1655 Scott Boulevard
Santa Clara, CA 95050

Other organizations to contact:

International Association of Electrical Inspectors
National Electrical Contractors Association

Important Note:

All possible care has been taken in providing the information in this catalog. Statements and specifications are believed to be accurate but are **not guaranteed** and we are not responsible for any inaccuracies. **Catalog data is provided for information purposes only** and should not be used to establish specification limits, nor should catalog data be used alone as the basis of design.

Contact the factory for exact specifications and design limit prints when this information is critical.

Trompeter Electronics is continuously improving its products to meet industry's increasingly demanding needs. We reserve the right to change or alter specifications or materials without notice, provided the function and performance of the component remains reasonably the same or is improved.

All products are subject to alteration or to discontinuance without prior notice.

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These represent 1000+ of over 7000 different Trompeter components. Call the Factory for any Trompeter (TEI) part numbers not listed.

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75Ω coax connector part numbers are prefixed by "U"

Also see part numbers listed in this index that are followed by "U"

These represent 1000+ of over 7000 different Trompeter components. Call the Factory for any Trompeter (TE!) part numbers not listed.

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To obtain additional information about Trompeter products, fill out a copy of this form and fax it to us.
If you have a specific application which requires a new product or a modification of one of our existing products, please use the **New Product Development Worksheet** on the facing page.

Send me ____Additional T18A catalogs __ Add: __Remove: Me to/from your mailing list.
Call me! _____Best time to reach me is: AM / PM Mon T ue Wed Thu Fri

Name _____ Phone (___) _____ - _____

Company Name _____ Fax (___) _____ - _____

Address _____ MS/Dept _____

City _____ State_____Zip _____

New Product Bulletins: Please send me additional information on the following new products.

___ **PLR40-AA-5885:** Miniature Coax Threaded (TNC), Right angle, Wrench Crimp cable plug for Times AA-5885 cable
___ **PLR95-RG393:** N Type, Right angle, Wrench Crimp cable plug for use on the RG393 cable
___ **CBBJR39A:** Two-pin Polarized Twinax (TWBNC), Right angle, Circuit board mount bulkhead jack
___ **TDSX-3:** DS3 Cross Connect Module, BNC Rear Interface, Replacement for the AT&T 619/627 Module
___ **J74:** Normal-through, Twinax/Triax Standard Dual patch jack, Miniature TRB rear interface

Product Application Sheets: Please send me additional information on the following:

TEI 109: ____Trompeter BNC/TNC Connectors for Belden's Conformable ® Coaxial Cables
TEI 111: ____Trompeter Filter Connector cuts EMI/RFI in Digital Systems- Helps meet FCC Spec.
TEI 114: ____Standard Coax Patching Systems
TEI 115: ____BNC/TNC Coaxial Circuit Board Connectors
TEI 121: ____The Trompeter Network Connection
TEI 122: ____Military Aircraft Digital Data Bus- MIL-STD-1553B
TEI 124: ____450 Series Concentric Twinax Connectors for MIL-STD-1553B Digital Data Bus Applications
TEI 131: ____TDSX-3/4 Cross Connect Module
TEI 189: ____Free Crimp Kit Offer (New Customer offer
___Good with order of 1,000+ Tool Crimp BNC's)
___**Telecom Systems Products**
___**Trompeter Twinax Patching Systems**
___"Electronic Systems Wiring & Cable"- Reprints

Fax __ Mail ___ drawings for the following Trompeter products:

T18A Page#	Trompeter Part Number (Required)	Part Description/Cable Mfr and cable model number (Recommended)
____	_____	_____
____	_____	_____
____	_____	_____
____	_____	_____
____	_____	_____

Comments: _____

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If you have a specific application which requires a new product or a modification of one of our existing products, then please fill out a copy of this form and fax it to us.

Fill out one complete form for each new product requested.

Requests are evaluated weekly and you will recieve a response in 3-5 working days.

Important: Please provide us with as much information as possible so that we may respond to your requests quickly.

Name _____ **Phone** (___) _____ - _____

Company Name _____ **Fax** (___) _____ - _____

Address _____ MS/Dept _____

City _____ State _____ Zip _____

New/Modified Product Description: _____

Sketch/Drawing

Target Price _____

1st Buy Quantity

1st Buy Date (Need by) _____

Annual Quantity _____

How many years? _____

Prototypes needed? _____

When? _____

Performance: Life _____

Frequency _____

Environment _____

___ **Similar to:** ____**Make from:** ____**Trompeter** ____**Other Mfr.** _____

T18A/Mfr Catalog Page#	**Part Number** (Required)	**Part Description/Cable Mfr and cable model number** (Recommended)
_____	_____	_____
_____	_____	_____
_____	_____	_____

Specific Application of proposed product: _____

Special Requirements: (Plating, Electrical specifications, etc.) _____

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Alaska	Evergreen Marketing Group, Inc. ..... Bothell, WA	(206) 485-8063	(206) 485-4888
Arizona	**Aztec Enterprises** 2741 West Southern, Suite 24, Tempe, AZ 85282	**(602) 431-8401**	**(602) 431-8385**
Arkansas	ION Associates, Inc. ..... Arlington, TX	(214) 647-8225	(214) 641-9839
California, N	**Interconnect Sales Group** 1900 Wyatt Drive, #10, Santa Clara, CA 95054	**(408) 980-1166**	**(408) 980-0219**
California, S	**Knight Company** 6733 S. Sepulveda Boulevard, Suite 210, Los Angeles, CA 90045	**(310) 670-2833**	**(310) 670-3063**
California, S	**Knight Company** 31130 El Torito Court, Temecula, CA 92390	**(714) 699-2495**	
Colorado	**Aztec Enterprises** 9145 East Kenyon Avenue, Suite101, Denver, CO 80237	**(303) 779-5285**	**(303) 779-5334**
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Florida	**Currie, Peak & Frazier, Inc.** 3744 CornerBrook Drive, Pace, FL 32571	**(904) 994-0599**	
Florida	**Currie, Peak & Frazier, Inc.** 10438 St. Tropez Place, Tampa, FL 33615	**(813) 854-5116**	**(813) 855-5362**
Florida	**Currie, Peak & Frazier, Inc.** 8000 Sugar Pine Drive, W. Melbourne, FL 32904	**(407) 724-6795**	**(407) 951-9717**
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Kansas	**BAKA Corp.** 7620 East Osie, Wichita, KS 67207	**(316) 682-8411**	**(316) 682-2166**
Kentucky	Geotronix, Inc. ..... Trotwood, OH	(513) 854-5939	(513) 837-0537
Louisiana	ION Associates, Inc. ..... Grand Prairie, TX	(214) 647-8225	(214) 641-9839
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Minnesota	**Engineering Products Associates, Inc.** 7336 Ohms Lane, Minneapolis, MN 55435	**(612) 835-9022**	**(612) 835-7347**
Mississippi	Currie, Peak & Frazier, Inc. ..... Orlando, FL	(407) 855-0843	(407) 851-1464
Missouri	**BAKA Corp.** 483 S. Kirkwood Road Suite 224, St. Louis, MO 63122	**(314) 429-2252**	**(314) 966-8681**
Nebraska	BAKA Corp. ..... Overland Park, KS	(913) 432-5252	(913) 432-5794

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New Jersey, S	W.A. Drobile, Inc. ..... Southampton, PA	(215) 364-2501	(215) 364-2051
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North Carolina	**Currie, Peak & Frazier, Inc.** ..... 1214 Grove Street, Greensboro, NC 27403	**(919) 373-0380**	**(919) 273-6308**
North Dakota	Engineering Products Associates, Inc. ..... Minneapolis, MN	(612) 835-9022	(612) 835-7347
Ohio	**Geotronix, Inc.** ..... 3554 Brecksville Road, Richfield, OH 44286	**(216) 659-6100**	**(216) 659-3435**
Ohio	**Geotronix, Inc.** ..... 5020 Laguna Rd, Trotwood, OH 45426	**(513) 854-5939**	**(513) 837-0537**
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Pennsylvania,E	**W.A. Drobile, Inc.** ..... P.O. Box 446, South Hampton, PA 18966	**(215) 364-2501**	**(215) 364-2051**
Pennsylvania,W	**Geotronix, Inc.** ..... 4361 Route 8, Allison Park, PA 15101	**(412) 487-1770**	**(412) 487-1331**
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Texas	**ION Associates, Inc.** ..... 2221 East Lamar, Suite 250, Arlington, TX, 76006	**(817) 695-8000**	**(817) 695-8010**
Texas	**ION Associates, Inc.** ..... 14347-A Torrey Chase Boulevard, Houston, TX 77014	**(713) 537-7717**	**(713) 537-5612**
South Carolina	Currie, Peak & Frazier, Inc. ..... Orlando, FL	(407) 855-0843	(407) 851-1464
South Dakota	Engineering Products Associates, Inc. ..... Minneapolis, MN	(612) 835-9022	(612) 835-7347
Tennessee	Currie, Peak & Frazier, Inc. ..... Huntsville, AL	(205) 536-1506	(205) 551-0558
Utah	**Aztec Enterprises** ..... 1817 S Main Street, Suite 17, Salt Lake City, UT 84115	**(801) 467-4675**	**(801) 487-7111**
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Wisconsin, W	Engineering Products Associates, Inc. ..... Minneapolis, MN	(612) 835-9022	(612) 835-7347
Wyoming	Aztec Enterprises ..... Denver, CO	(303) 779-5285	(303) 779-5334

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Brazil (Broadcast)	**Mectronica Mecanica e Electonica Ltda** Rua Mineira, 375-Jardin Conceicao, Osasco, CEP 06140, San Paulo, BRAZIL	(11) 702-9412	(11) 703-5230
Brazil (Mil/Aero)	**Cave Industria e Comercia Ltda** Av. Churchill. 94 6°_andar, 20020 Rio de Janeiro, BRAZIL	(21) 220-8948	(21) 220-3875
Canada	**Componetics Ltd.** 1580 Beaulac, St. Laurent, Quebec, H4R 1W8, CANADA	(514) 331-9930	(514) 331-1498
Canada	**Promark Electronics, Inc.** 6161 Cypihot, St. Laurent, Quebec, H4S 1R3, CANADA	(800) 363-8855	(514) 856-1921
Canada	**Componetics Ltd.** 210 Cochrane Drive, Unit #8, Markham, Ontario, L3R 8E6, CANADA	(416) 479-7200	(416) 479-6909
Canada	**Promark Electronics, Inc.** 3069 Flanagan Court, Burlingtn, Ontario, L7M 2L9, CANADA	(416) 332-1145	(416) 332-1145
Chile	**Inter Video** Antonio Vares #637, Providencia, Santiago, CHILE	(56) 2 225 4605	(56) 2 225 5459
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France	**ACAL AURIEMA SA-Technitron Systems** Zone d'Activite des Marais, 1 Av Louison Bobet, Fontenay-Sous-Bois, 94120, FRANCE	(33) 1 48 76 11 03	(33) 1 48 77 62 30
Germany	**ACAL Auriema Gmbh.-Technitron** Gustav-Heinemann Ring 135, D-8000, München 83, FEDERAL REPUBLIC OF GERMANY	(49)-89-67-80-95-0	(49)-89-637-65-66
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Israel	**Shaham Electronics** 4, Raoul Wallenberg Street, Ramat Hachayal, Tel Aviv, ISRAEL	(972) 3 481222/3/4	(972) 3 472255
Italy	**Brelco S.r.1** Via S. Maria delle Selve, 4", Biassono, 20046, Milan, ITALY	(39) 39 2494280	(39) 39 490280
Mexico (Broadcast)	**Sistems Digitales en Rudio y Video, S.A. DE CV.** Sur 77 No. 4386, Col. Viaducto Piedad, C.P. 08210, Iztacalco, MEXICO D.F.	(5) 530-9079	(5) 538-9221
Mexico (Telecom)	**Medicon y Electronics, S.A. DE CV.** Cumbres de Maltrata 359-201, Col. Vertiz Navarte, C.P. 03020, MEXICO D,F.	(5) 696-3918	(5) 696-3918
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New Zealand	**Connector Systems Ltd** PO Box 6300, 210 Khyber Pass Road, Auckland, NEW ZEALAND	(6) 49 707 49 45	(6) 49 309 18 82
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United Kingdom	**Greenwood Electronics** Kyppings House, Ravensworth Road, Mortimer,Reading, Berkshire, RG73UD, UNITED KINGDOM	(44) 734 595-843	(44) 734 505-324
United Kingdom	**ACAL Electronics Ltd-Dean Technitron** Workingham Rd, Bracknell, RG12 1ND, UNITED KINGDOM	(44)-(0)344-727272	(44)-(0)344-424263
Venezuela	**CAAD Video Supply of Venezuela** Avenida Guaicaipuro, Torre Hener, Piso 1, Oficina 1-AE1 Rosai El Roasai, Caracus, VENEZUELA	(58) 2 951-2284	(58) 2 951-3351

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Would you please take a moment to fill out our survey card and drop it in the mail to us? It will help us to keep you informed through more effective advertising. Knowing which publications are most useful to you will also help us to keep up on vital issues which are important to you. Information on your application will help us to better understand your function and responsibilities.

You will also automatically be listed to receive our next catalog. Hopefully, this will all lead to better communication and products which are more responsive to your needs. Of course, answering all questions is optional but fully completed surveys will be entered into a quarterly drawing for a FREE Crimp Kit ($135 value!).

Please keep me connected with quality.

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Phone: _____ Best time to call _____ AM ☐ PM ☐

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_____

Name _____ Phone _____

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Other (Please specify) _____

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Address _____ MS/Dept _____

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Trompeter Customer Connection Survey

The three trade publications I read religiously are:

1. _____
2. _____
3. _____

I have seen your ads in trade publications ☐ Yes ☐ No

The number of different card pack advertisements I receive each month is: _____

The number of card packs I actually read is: _____

I have responded to ☐ 0-5, ☐ 6-10, ☐ 10-25, ☐ 25+ card pack ads in the past year

I have responded to ☐ 0-5, ☐ 6-10, ☐ 10-25, ☐ 25+ magazine ads in the past year

A volume of EEM is available to me:
☐ Yes ☐ No I use it: ☐ Rarely, ☐ Often, ☐ Never

A volume of The Thomas Register is available to me:
☐ Yes ☐ No I use it: ☐ Rarely, ☐ Often, ☐ Never

My major motivation for requesting a Trompeter catalog is:

☐ I have used Trompeter products for _____ years.

☐ I have not used Trompeter products and responded to advertising for general literature.

☐ I have not used Trompeter products and responded to advertising for a specific application need.

Comments: _____

Upon receiving Trompeter's catalog I found that it was:
- ☐ Useful as I had expected.
- ☐ Useful, but not what I expected.
- ☐ Not useful, but what I had expected.
- ☐ Not useful and not what I had expected.

Prior to receiving Trompeter's catalog I was:
- ☐ Familiar with Trompeter's name and products.
- ☐ Knew Trompeter's name but not its products.
- ☐ Did not know Trompeter or its products

My Dept.'s primary function is:
☐ Other (Please specify) _____
- Management ☐
- Purchasing ☐
- Engineering ☐
- Quality Control ☐

My primary job function is to: products
- Recommend ☐
- Specify ☐
- Buy ☐
- Use ☐

I've used Trompeter products for:
- Less than 1 year ☐
- 1-3 years ☐
- 3-5 years ☐
- 5+ years ☐

☐ I have never used Trompeter products before

My primary application is:
- Computer/Data ☐
- Broadcast/Video ☐
- Telecom ☐
- Military ☐

My company uses the following products:

- ☐ Coax cable
- ☐ Coax patching
- ☐ Coax connectors
- ☐ Cable Assemblies
- ☐ Twinax/Triax Cable
- ☐ Twinax/Triax patching
- ☐ Twinax/Triax connectors
- ☐ Custom Panels

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FAX: (416) 479-9609

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PH: (305) 372-8845

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FAX: (47) 529-1946

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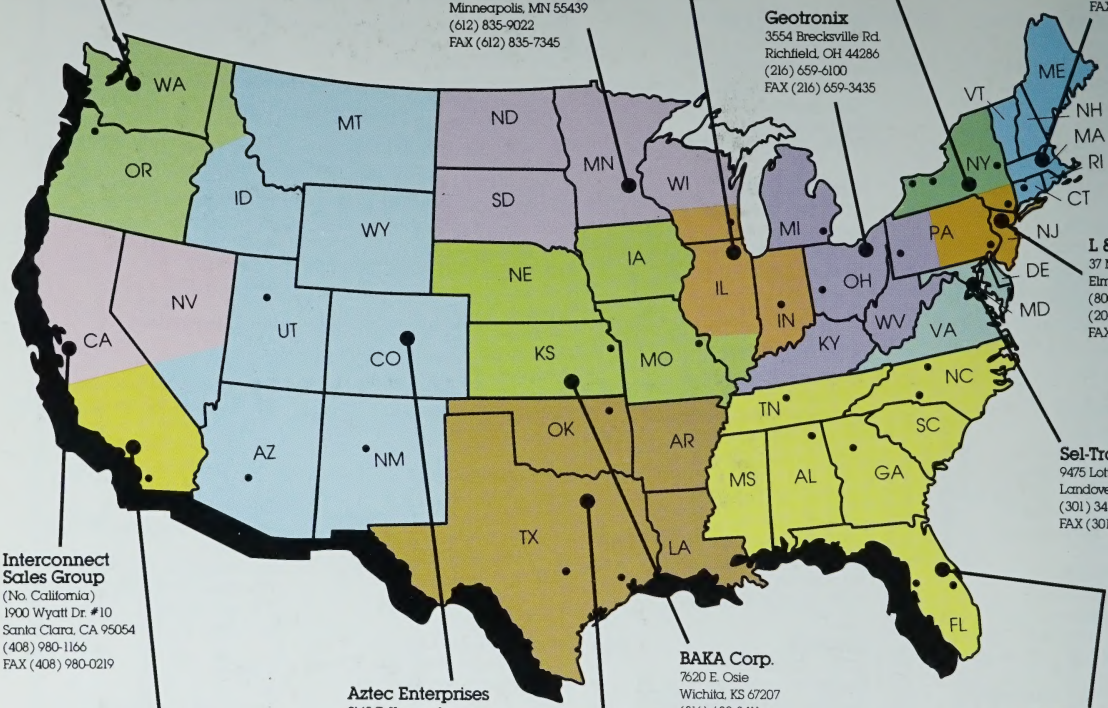

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